

HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA HARRISON BAY STATE/COUNTY AK BOOK NO. B PAGE 51 OF
 LINE/LOOP NO. 5-B' TYPE SURVEY VERT CLIENT U.S.G.S. DATE 31 BY 3 MO 81 YR
 SURVEYOR JOHNS 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	<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	LINE
				SLOPE					HORIZ	INST				
1	Δ	BM 81401	760		90.00-00	8'						1	ELE = 119.02	
2			1500		90.05-36	5'						2		
3					269-54.30	5'	+7.5					3		
4	⊗	TS 88	-0-			5.5		127.	121.5			4		
5		TS 89	440		89-21-11	11			121			5		
6		" 90	880		89-44-26	11	-7		120			6		
7		" 91	1320		89-49-20	11			120.2			7		
8		" 92	1760		89-45-40	11			123.4			8		
9		" 93	2200		89-34-31	11			132.4			9		
10	⊙	" 94	2640		89-31-15	11	11.2		138.2			10		
11					270-20-42	11						11		
12												12		
13	Δ	TS 94	3080		89-47-19	11	-6					13		
14		95			270-12-42	11						14		
15		" 95	2640		90-13-45	11			116.2			15		
16		" 96	2200		90-14-58	11			115.9			16		
17		" 97	1760		90-17-35	11			117.7			17		

WORKED BY _____ CHECKED BY 1ST J. Johns 2ND _____

SYMBOLS

Δ = BACKSIGHT

⊗ = INSTRUMENT SET-UP

SS = SIDESHOT

⊙ = FORESIGHT

HORIZONTAL AND VERTICAL SURVEY NOTES

2

GSI AREA HARRISON BAY STATE/COUNTY AK BOOK NO. 3 PAGE 52 OF
 LINE/LOOP NO. B-31 TYPE SURVEY VERT CLIENT U.S.G.S. DATE 31 BY 3 MO 81 YR
 SURVEYOR V-HNS INSTRUMENT DESC/SERIAL NO. WILD T-2 CREW NO. 1186

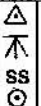
LINE	 SS 	STATION	VERTICAL						HORIZONTAL		REMARKS				
			DISTANCE	<input type="checkbox"/> FEET <input type="checkbox"/> METERS		VERTICAL ANGLE OBS.	ROD RDG OR HI	ELEV DIFF	FINAL ELEVATION DIFF	ELEVATION		LR OR DR	RIGHT TURNED HORIZONTAL ANGLE	LINE	
				SLOPE	HORIZ					INST					ROD
1	S	TS-98	1320		90-27-37	11			116.1			1			
2	S	TS-99	880		90-44-03	11			115.4			2			
3	S	SP-100	440		91-14-37	11			117.1			3			
4	K	101	-0-			5.6		137.7				4			
5	S	102	440		90-52-06	11						5			
6	S	103	880		89-41-22	11						6			
7	S	104	1320		89-54-49	11						7			
8	S	105	1760		90-01-04	11						8			
9		106	2200		90-02-31	11			125.2			9			
10					269-57-31	11						10			
11												11			
12		106	2640		89-51-32	11						12			
13					270-08-21	11						13			
14	S	107	2200		90-00-58	11			118.0			14			
15	S	108	1760		90-13-54	11						15			
16	S	109	1320		90-15-46	11						16			
17	S	110	880		89-42-35	11						17			

WORKED BY _____ CHECKED BY 1st F Johns 2nd _____

SYMBOLS = BACKSIGHT
 = INSTRUMENT SET-UP
 SS = SIDESHOT
 = FORESIGHT

HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA HARRISON BAY STATE/COUNTY AK BOOK NO. 3 PAGE 53 OF 3
 LINE/LOOP NO. B-81 TYPE SURVEY VERT CLIENT USGS DATE 31 DY 3 MO 81 YR
 SURVEYOR JOHN'S INSTRUMENT DESC/SERIAL NO. WILD T.2 CREW NO. 1186

LINE	 △ SS ⊙	STATION	VERTICAL						HORIZONTAL		LINE	REMARKS		
			DISTANCE		VERTICAL ANGLE OBS.	ROD RDG OR HI	ELEV DIFF	FINAL ELEVATION DIFF	ELEVATION				LR OR DI	RIGHT TURNED HORIZONTAL ANGLE
			SLOPE	HORIZ					INST	ROD				
1	S	111	440		89-21-07	11						1		
2	⊙	112	-0			5.6		129.6				2		
3	S	INIGOK WELL	1913.5		90-35-05	11			99.1			3		
4	S	113	440		91-21-11	11						4		
5	S	114	880		90-48-02	11						5		
6	S	115	1320		90-37-16	11						6		
7	S	116	1760		90-31-37	11						7		
8	S	117	2200		90-25-06	11						8		
9	⊙	118	2640	90-10-40	90-10-49	11			110.5			9		
10				269-49-12	269 49 11	11						10		
11												11		
12												12		
13												13		
14												14		
15												15		
16												16		
17												17		

WORKED BY _____ CHECKED BY 1ST F. Johns 2ND _____

SYMBOLS △ = BACKSIGHT ⊙ = INSTRUMENT SET-UP SS = SIDESHOT ⊙ = FORESIGHT

HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA HARRISON BAY STATE/COUNTY AK BOOK NO. 3 PAGE 54 OF 4
 LINE/LOOP NO. B-81 TYPE SURVEY VERT CLIENT U.S.G.S. DATE 1 DY 4 MO 81 YR
 SURVEYOR JOHNS 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
				SLOPE					HORIZ	INST			
1		118	1595		90-35-34	11						1	
2					269-24-29	11						2	
3	S	119	1155		90-40-48	11						3	
4	S	120	715		90-42-34	11						4	
5	S	121	275		89-52-09	11						5	
6		A 121+275'	-0-						137.9			6	
7	S	122	165		89-53-33	11						7	
8	S	123	605		89-54-39	11						8	
9	S	124	1045		89-59-52	11						9	
10	S	125	1485		89-42-33	11						10	
11	O	126	1925		89-42-54	11						11	
12					270-17-10	11		-1.3		136.6		12	
13												13	
14		126	3355		89-50-24	11						14	
15					270-09-39	11		+1.4				15	
16	S	127	2715		90-12-54	11						16	
17	S	128	2475		90-18-49	11						17	

WORKED BY _____ CHECKED BY 1ST F. Johns 2ND _____

SYMBOLS = BACKSIGHT = INSTRUMENT SET-UP = SIDESHOT = FORESIGHT

HORIZONTAL AND VERTICAL SURVEY NOTES

5

GSI AREA HARRISON BAY STATE/COUNTY AK BOOK NO. 3 PAGE 55 OF
 LINE/LOOP NO. B-81 TYPE SURVEY VERT CLIENT USGS DATE 1 DY 4 MO 81 YR
 SURVEYOR JOHNS INSTRUMENT DESC/SERIAL NO. WILD T-2 CREW NO. 1106

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	129	2035		90-20-37	11						1		
2	S	130	1595		90-55-10	11						2		
3	S	131	1155		91-17-52	11						3		
4	S	132	715		92-05-07	11						4		
5	S	133	275		92-23-04	11						5		
6		133+275	-0-			5.7		137.9				6		
7	S	134	165		89-25-29	11						7		
8		135	705		89-27-35	11						8		
9					270-32-21	11		-4.3	133.6			9		
10												10		
11		135	3080		89-04-43	11						11		
12					270-55-15	11		-38.7				12		
13	S	136	2640	89-31-07	24-43	11						13		
14	S	137	2200		89-49-16	11						14		
15	S	138	1760		89-49-16	11						15		
16	S	139	1320		89-46-08	11						16		
17	S	140	880		89-38-57	11						17		

WORKED BY _____ CHECKED BY 1ST John 2ND _____

SYMBOLS = BACKSIGHT
 = INSTRUMENT SET-UP
 = SIDESHOT
 = FORESIGHT

HORIZONTAL AND VERTICAL SURVEY NOTES

6

GSI AREA HARRISON BAY STATE/COUNTY AK BOOK NO. 3 PAGE 5 OF 6
 LINE/LOOP NO. B-81 TYPE SURVEY VERT CLIENT USGS DATE 1 DY 4 MO 81 YR
 SURVEYOR JOHNS INSTRUMENT DESC/SERIAL NO. WILD TP1 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		LR OR DI	RIGHT TURNED HORIZONTAL ANGLE	LINE	
				SLOPE	HORIZ					INST					ROD
1	S	141	440		89-07-36	11							1		
2	⊕	142	-0-			55			94.9				2		
3	S	143	440		89-05-12	11							3		
4	S	144	880		89-31-26	11							4		
5	S	145	1320		88-25-08	11							5		
6	S	146	1760		88-09-24	11							6		
7	⊕	147	2200		88-19-21	11							7		
8					271-40-36	11		53.5		148.4			8		
9													9		
10	Δ	147	1890		89-47-30	11							10		
11					270-12-38	11		+4.0					11		
12	S	148	1450		89-36-24	11							12		
13	S	149	1010		89-30-18	11							13		
14	S	150	570		89-36-53	11							14		
15	S	151	130		90-36-47	4							15		
16	⊕	Bm 81488	-0-			6			152.9				16		
17													17		

WORKED BY _____ CHECKED BY 1ST F. Johns 2ND _____

SYMBOLS Δ = BACKSIGHT ⊕ = INSTRUMENT SET-UP SS = SIDESHOT ⊕ = FORESIGHT

HORIZONTAL AND VERTICAL SURVEY NOTES

7

GSI AREA HARRISON BAY STATE/COUNTY AK BOOK NO. 3 PAGE 57 OF
 LINE/LOOP NO. B-81 TYPE SURVEY VERT CLIENT U.S.G.S. DATE 1 BY 4 MO 81 YR
 SURVEYOR JOHNS 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	<input type="checkbox"/> FEET <input type="checkbox"/> METERS	VERTICAL ANGLE OBS.	ROD RDG OR HI	ELEV DIFF	FINAL ELEVATION DIFF	ELEVATION			RIGHT TURNED HORIZONTAL ANGLE	LINE
				SLOPE					HORIZ	INST			
1	⊙	81488	-0-		90-00-00	6'			146.4		1	BAR WIK 81488	
2											2	ELE = 148.56	
3	Δ	81488	-0-		90-00-00	6'					3	-146.40	
4												TIE = 2.16	
5	⋈	81488	-0-			6'		154.6			5		
6	S	152	310		89-57-53	11					6		
7	S	153	750	91-14-18	90-25-21	2821'					7		
8	S	154	1190		91-33-17	11					8		
9	S	155	1630		91-30-46	11					9		
10	S	156	2070		91-13-56	11					10		
11	S	157	2510		90-59-49	11					11		
12	S	158	2950		90-40-43	11					12		
13	⊙	159	3390		89-57.42	11					13		
14					270-02-16	11		-8.5	146		14		
15											15		
16											16		
17											17		

WORKED BY _____ CHECKED BY 1st F. Johns 2nd _____

SYMBOLS Δ = BACKSIGHT ⋈ = INSTRUMENT SET-UP SS = SIDESHOT ⊙ = FORESIGHT

HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA HARRISON BAY STATE/COUNTY AK BOOK NO. 3 PAGE 58 OF 8
 LINE/LOOP NO. B-81 TYPE SURVEY VERT CLIENT USGS DATE 1 BY 4 MO 81 YR
 SURVEYOR JOHNS 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	<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				
1	Δ	159	2200		89-34-15	11						1		
2					270-25-44	11	-5.6					2		
3	S	160	1760		89-20-03	11						3		
4	S	161	1320		89 37 53	11						4		
5	S	162	880		89 23 46	11						5		
6	S	163	440		88-56-50	11						6		
7	⊗	164	-0-			5.5		140.5				7		
8												8		
9	S	165	440		90-16-10	11						9		
10	S	166	880		90-09-06	11						10		
11	S	167	1320		90-08-00	11						11		
12	S	168	1760		89-59-24	11						12		
13	⊙	169	2200		89-58-07	11						13		
14		170	2640		270.02-00	11	-9.7	130.8				14		
15												15		
16												16		
17												17		

WORKED BY _____ CHECKED BY 1ST F. Johns 2ND _____

SYMBOLS Δ = BACKSIGHT ⊗ = INSTRUMENT SET-UP SS = SIDESHOT ⊙ = FORESIGHT

HORIZONTAL AND VERTICAL SURVEY NOTES

9

GSI AREA HARRISON BAY STATE/COUNTY AK BOOK NO. 13 PAGE 59 OF
 LINE/LOOP NO. B-81 TYPE SURVEY VERT CLIENT U.S.G.S. DATE 1 DY 4 MO 01 YR
 SURVEYOR JOHNS 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	<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
				SLOPE					HORIZ	INST			
1	Δ	169	2365		90-17-13	11						1	
2					269-11-49	11	+22.7					2	
3	S	170	1925		90-35-22	11						3	
4	S	171	1485		90-50-20	11						4	
5	S	172	1045		91-14-36	11						5	
6	S	173	605		92-06-34	11						6	
7	S	174	165		92-43-41	48						7	
8	⊗	174+165'	-0-			5.5		153.5				8	
9	S	175	275		90-54-29	48						9	
10	S	176	715		89-51-58	11						10	
11	S	177	1155		90-08-00	11						11	
12	S	178	1595		90-08-11	11						12	
13	S	179	2035		90-03-09	11						13	
14	S	180	2475		89-55-51	11						14	
15	⊙	181	2915		89-54-36	11						15	
16					270-05-21	11		-6.3	147.3			16	
17												17	

WORKED BY _____ CHECKED BY 1ST F. Johns 2ND _____

SYMBOLS Δ = BACKSIGHT ⊗ = INSTRUMENT SET-UP SS = SIDESHOT ⊙ = FORESIGHT

HORIZONTAL AND VERTICAL SURVEY NOTES

10

GSI AREA HARRISON BAY STATE/COUNTY AK BOOK NO. 3 PAGE 60 OF
 LINE/LOOP NO. B-81 TYPE SURVEY VERT CLIENT U.S.G.S. DATE 2 DY 4 MO 81 YR
 SURVEYOR JOHNS 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	<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	Δ	181	1320		89-28-17	11		-1.2				1	
2					270-31-39	11						2	
3	S	182	880		89-29-30	11						3	
4	S	183	440		89-28-10	11						4	
5	⋈	184	-0-			54			146.1			5	
6	S	185	440		91-16-15	11						6	
7	S	186	880		91-23-50	11						7	
8	S	187	1320		91-09-53	11						8	
9	S	188	1260		91-00-35	11						9	
10	⊙	189	2200		90-50-00	11		-42.9	103.2			10	
11					269-10-00	11		-1				11	
12												12	
13	Δ	189	2200		89-50-45	11		+46				13	
14					270-09-05	11						14	
15	S	190	1760		89-50-18	11						15	
16	S	191	1320		89-45-08	11						16	
17	S	192	880		89-39-34	11						17	

WORKED BY _____ CHECKED BY 1ST F. Johns 2ND _____

SYMBOLS Δ = BACKSIGHT ⋈ = INSTRUMENT SET-UP SS = SIDESHOT ⊙ = FORESIGHT

HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA HARRISON BAY STATE/COUNTY AK BOOK NO. 3 PAGE 61 OF 11
 LINE/LOOP NO. B-81 TYPE SURVEY VERT CLIENT USGS DATE 2 DY 4 MO 81 YR
 SURVEYOR JOHNS INSTRUMENT DESC/SERIAL NO. WILD T-2 CREW NO. 1186

LINE	<input type="checkbox"/> Δ <input type="checkbox"/> K <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				
1	S	193	440		89-20-20	11						1		
2	K	194	-0-		B	54		107.8				2		
3	S	195	440		89-10-33	11						3		
4	S	196	880		89-35-05	11						4		
5	S	197	1320		89-17-02	11						5		
6	S	198	1760		89-18-30	11						6		
7	⊙	198+385'	2200		89-33-06	11						7		
8					270-27-00	11		6.3	114.1			8		
9												9		
10	Δ	198+385'	1815		88-55-36	11		-23				10		
11					271-04-20	11						11		
12	S	199	1760		88-55- 36 ²⁰	11						12		
13	S	200	1220		88-45-39	11						13		
14	S	201	880		89-35-32	11						14		
15	S	202	440		89-17-14	11						15		
16	K	203	-0-		89-19-19	54		91.1				16		
17	S	204	440		89-19-19	11						17		

WORKED BY _____ CHECKED BY 1ST J. Johns 2ND _____

SYMBOLS

Δ = BACKSIGHT

K = INSTRUMENT SET-UP

SS = SIDESHOT

⊙ = FORESIGHT

HORIZONTAL AND VERTICAL SURVEY NOTES

12

GSI AREA HARRISON BAY STATE/COUNTY AK BOOK NO. 3 PAGE 02 OF
 LINE/LOOP NO. B-81 TYPE SURVEY VERT CLIENT U.S.G.S. DATE 2 BY 4 MO 81 YR
 SURVEYOR JOHNS 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	<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	INST				
1	S	205	880		89-40-50	11						1		
2	S	206	1320		89-43-19	11						2		
3	S	207	1760		89-07-05	11						3		
4	⊙	208	2200		89-12-38	11						4		
5					270-47-14	11	19.4	110.4				5		
6												6		
7	Δ	208	2640		89-12-45	4	-25.4					7		
8					270-47-12	11						8		
9	S	209	2200		89-08-46	11						9		
10	S	210	1760		89-02-41	11						10		
11	S	211	1320		89-51-43	11						11		
12	S	212	880		89-14-27	4						12		
13	S	213	440		89-37-23	4						13		
14	⊗	214	-0-			55			85.0			14		
15	S	215	440		90-21-19	4						15		
16	S	216	880		89-37-11	4						16		
17	S	217	1320		89-35-15	4						17		

WORKED BY _____ CHECKED BY 1st *[Signature]* _____ 2ND _____

SYMBOLS Δ = BACKSIGHT ⊗ = INSTRUMENT SET-UP SS = SIDESHOT ⊙ = FORESIGHT

HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA HARRISON BAY STATE/COUNTY AK BOOK NO. 3 PAGE 03 OF 13
 LINE/LOOP NO. B-81 TYPE SURVEY VERT CLIENT U.S.G.S. DATE 2 BY 4 MO 01 YR
 SURVEYOR JOHNS 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	<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
				SLOPE	HORIZ					INST	ROD			
1	S	INT B-81/16-81	1125		89-37-19	4	#			88.5			1	SP 216 + 245'
2	S	218	1760		89-25-34	11							2	
3	⊙	219	2200		89-28-20	11							3	
4					270-31-40	11		9.4		44.4			4	
5													5	
6	Δ	219	3080		89-28-00	11							6	
7					270-32-04	11		717.9					7	
8	S	220	2640		89-27-02	11							8	
9	S	221	2200		89-15-11	11							9	
10	S	222	1760		89-15-45	11							10	
11	S	223	1320		89-11-36	11							11	
12	S	224	880		89-24-24	11							12	
13	S	225	440		89-24-11	11							13	
14	Δ	226	-0-			5.5				76.5			14	
15	S	227	440		89-23-23	11							15	
16	S	228	880		89-39-42	11							16	
17	S	229	1320		89-45-54	11							17	

WORKED BY _____ CHECKED BY 1st F. Johns 2ND _____

SYMBOLS Δ = BACKSIGHT Δ = INSTRUMENT SET-UP SS = SIDESHOT ⊙ = FORESIGHT

HORIZONTAL AND VERTICAL SURVEY NOTES

14

GSI AREA HARRISON BAY STATE/COUNTY AK BOOK NO. 3 PAGE 64 OF
 LINE/LOOP NO. B-81 TYPE SURVEY VERT CLIENT USGS DATE 2 BY 1 MO 91 YR
 SURVEYOR JOHNS 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	<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	INST				
1	S	230	1760		89-49-56	11						1		
2	S	231	2200		89-50-14	11						2		
3	S	232	2640		89-53-50	11						3		
4	⊕	233	3080		89-55-27	11	-6.7		69.8			4		
5					270-04-34	11						5		
6												6		
7	A	233	3080		90-04-02	11						7		
8					269-56-04	11	+14.4					8		
9	S	234	2640		90-04-00	11						9		
10	S	235	2200		90-09-39	11						10		
11	S	236	1760		90-09-16	11						11		
12	S	237	1320		90-11-27	11						12		
13	S	238	880		90-16-26	11						13		
14	S	239	440		90-24-30	11						14		
15	⊕	240	-0-			5.6			34.2			15		
16	S	241	440		89-05-55	11						16		
17	S	242	880		89-42-17	11						17		

WORKED BY _____ CHECKED BY 1ST F Johns 2ND _____

SYMBOLS Δ = BACKSIGHT ⊕ = INSTRUMENT SET-UP SS = SIDESHOT ⊕ = FORESIGHT

HORIZONTAL AND VERTICAL SURVEY NOTES

15

GSI AREA HARRISON BAY STATE/COUNTY AK BOOK NO. 3 PAGE 05 OF
 LINE/LOOP NO. B-81 TYPE SURVEY VERT CLIENT USGS DATE 2 DY 4 MO 81 YR
 SURVEYOR JOHNS 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	<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	S	243	1320		89-51-25	11						1	
2	S	244	1760		90-00-54	11						2	
3	⊙	245	2200		90-05-00	11						3	
4					269-55-12	11		-14		70.1		4	
5												5	
6	Δ	245	2200		89-51-45	11						6	
7					270-08-22	11		+5.6				7	
8	S	246	1760		89-52-50	11						8	
9	S	247	1320		90-03-48	11						9	
10	S	248	880		90-08-26	11						10	
11	S	249	440		89-06-00	11						11	
12	⊗	250	-0-			5.8				75.7		12	
13	⊙	Δ LEONA	2683.9		89-57-28	15						13	
14					270-22-17	15		2.6		78.3		14	
15												15	
16												16	
17												17	

WORKED BY _____ CHECKED BY 1ST f Johns 2ND _____

SYMBOLS Δ = BACKSIGHT ⊗ = INSTRUMENT SET-UP SS = SIDESHOT ⊙ = FORESIGHT

HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA HARRISON BAY STATE/COUNTY AK BOOK NO. 3 PAGE 66 OF 16
 LINE/LOOP NO. B-81 TYPE SURVEY VERT CLIENT U.S.G.S. DATE 2 DY 4 MO 81 YR
 SURVEYOR JOHNS INSTRUMENT DESC/SERIAL NO. WILD T. 2 CREW NO. 1106

LINE	<input type="checkbox"/> Δ <input type="checkbox"/> SS <input type="checkbox"/> ⊙	STATION	VERTICAL						HORIZONTAL		LINE	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	
				SLOPE	HORIZ					INST					ROD
1	Δ	LEONA	2683.9		89-37-28	15						1	LEONA = 77.0		
2					270-22-17	15	-2.6					2			
3	⊞	250	-0-			6.8		74.4				3			
4	S	251	440		91-10-39	11						4			
5	S	252	880		90-53-33	11						5			
6	S	253	1320		90-23-28	11						6			
7	S	254	1760		90-08-18	11						7			
8	⊙	255	2200		90-00-41	11	+11.4		63.0			8			
9	⊙	256	2640		269-59-12	11						9			
10												10			
11	Δ	255	2640		89-32-37	11						11			
12					270-27-28	11	-10.2					12			
13	S	256	2200		89-41-07	11						13			
14	S	257	1760		89-37-45	11						14			
15	S	258	1320		89-32-08	11						15			
16	S	259	880		89-39-05	11						16			
17	S	260	440		89-32-12	11						17			

WORKED BY _____ CHECKED BY 1ST F. Johns 2ND _____

SYMBOLS

Δ = BACKSIGHT

⊞ = INSTRUMENT SET-UP

SS = SIDESHOT

⊙ = FORESIGHT

HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA HARRISON BAY STATE/COUNTY AK BOOK NO. 3 PAGE 67 OF 17
 LINE/LOOP NO. B-81 TYPE SURVEY VERT CLIENT USGS DATE 2 DY 4 MO 81 YR
 SURVEYOR JOHNS 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	<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	ROD			
1	⊕	261	-0-			5.5			53.8				1	
2	S	262	440		90-08-05	11							2	
3	S	263	880		90-02-00	11							3	
4	S	264	1320		90-02-22	11							4	
5	S	265	1760		90-02-22	11							5	
6	S	266	2200		89-53-30	11							6	
7	⊙	267	2640		89-53-25	11	-5.8		47.0				7	
8					270-06-40	11							8	
9													9	
10	Δ	267	3080		89-52-30	11	4.4						10	
11					270-07-41	11							11	
12	S	268	2640	90-07-51	89-52-30	11							12	
13	S	269	2200		90-11-11	11							13	
14	S	270	1760		90-03-03	15							14	
15	S	271	1320		89-43-33	11							15	
16	S	272	880		89-42-00	11							16	
17	S	273	440		89-20-55	11							17	

WORKED BY _____ CHECKED BY 1ST [Signature] 2ND _____

SYMBOLS

Δ = BACKSIGHT

⊕ = INSTRUMENT SET-UP

SS = SIDESHOT

⊙ = FORESIGHT

HORIZONTAL AND VERTICAL SURVEY NOTES

18

GSI AREA HARRISON BAY STATE/COUNTY AK BOOK NO. 3 PAGE 68 OF
 LINE/LOOP NO. B-81 TYPE SURVEY VERT CLIENT U.S.G.S. DATE 2 DY 4 MO 81 YR
 SURVEYOR JOHN'S 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				
1	Δ	274	-0-		55			51.0				1		
2	S	275	440	89-16-28	11							2		
3	S	276	880	89-42-02	11							3		
4	S	277	1320	89-53-25	11							4		
5	S	278	1760	89-57-30	11							5		
6	S	279	2200	90-01-30	11							6		
7	⊙	280	2640	90-02-18	11							7		
8				269-57-43	11		-12.6		38.4			8		
9												9		
10	A	280	2640	89-37-10	11							10		
11				270-33-00	11		-6.7					11		
12	S	281	2200	89-34-50	11							12		
13	S	282	1760	89-49-09	11							13		
14	S	283	1320	89-46-15	11							14		
15	S	284	880	89-39-20	11							15		
16	S	285	440	89-17-07	11							16		
17	Δ	286	-0-		55			31.7				17		

WORKED BY _____ CHECKED BY 1ST P. John 2ND _____

SYMBOLS Δ = BACKSIGHT Δ = INSTRUMENT SET-UP SS = SIDESHOT ⊙ = FORESIGHT

HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA HARRISON BAY STATE/COUNTY AK BOOK NO. 3 PAGE 69 OF 19
 LINE/LOOP NO. B-81 TYPE SURVEY VERT CLIENT HSGS DATE 2 BY 4 MO 81 YR
 SURVEYOR _____ 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
				SLOPE					HORIZ	INST			
1		287	440		89-19-36	11						1	
2		288	880		89-39-00	11						2	
3		289	1320		89-45-34	11						3	
4		290	1760		89-47-47	11						4	
5		291	2200		89-49-27	11						5	
6		190										6	
7		IRON PIPE	-6 -		90-00-00	2.5						7	
8			2440		90-00-00	2.5						8	
9												9	
10		292	2640		89-41-33	11	3.4		35.			10	
11					270-18-37	11						11	
12												12	
13												13	
14												14	
15												15	
16												16	
17												17	

WORKED BY _____ CHECKED BY 1ST L. Johns 2ND _____

SYMBOLS = BACKSIGHT = INSTRUMENT SET-UP = SIDESHOT = FORESIGHT

HORIZONTAL AND VERTICAL SURVEY NOTES

20

GSI AREA HARRISON DAM STATE/COUNTY AK BOOK NO. B PAGE 70 OF
 LINE/LOOP NO. B-81 TYPE SURVEY VERT CLIENT U. S. G. S. DATE 3 DY 4 MO 81 YR
 SURVEYOR JOHNS 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	LINE
									SLOPE	HORIZ				
1		292	2640		89-48-33	11	+2.1					1		
2					270-11-25	11						2		
3		293	2200		89-47-15	11						3		
4		294	1760		89-47-49	11						4		
5		295	1320		90-02-23	11						5		
6		296	880		90-05-19	11						6		
7		297	440		89-31-24	11		37.1				7		
8		298	-0-			5.6		-33.4				8		
9		299	440		89-19-19	11						9		
10		300	880		89-51-51	11						10		
11		301	1320		90-02-21	11						11		
12		302	1760		90-01-50	11						12		
13		303	2200		90 12 25	11						13		
14		304	2640		90 11 11	11	-19.4		17.7			14		
15					269 48 55	11						15		
16												16		
17												17		

WORKED BY _____ CHECKED BY 1ST J. Johns 2ND _____

SYMBOLS = BACKSIGHT = INSTRUMENT SET-UP = SIDESHOT = FORESIGHT

HORIZONTAL AND VERTICAL SURVEY NOTES

21

GSI AREA HARRISON BAY STATE/COUNTY AK BOOK NO. 3 PAGE 71 OF
 LINE/LOOP NO. B-81 TYPE SURVEY VERT CLIENT USGS DATE 3 DY 4 MO 81 YR
 SURVEYOR JOHNS 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	<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	304	2640		89 50 33	11						1		
2					270 09 35	4	3.5					2		
3	S	305	2200		89 42 42	11						3		
4	S	306	1760		89-32-04	11						4		
5	S	307	1320		89-36-08	11						5		
6	S	308	880		89-35-53	11						6		
7	S	309	440		89-14-50	11						7		
8	⊥	310	-0-			5.6		21.2				8		
9	S	311	440		89-42-16	11						9		
10	S	312	880		89-54-40	11						10		
11	S	313	1320		89-58-05	11						11		
12	S	314	1760		89-58-22	11						12		
13	⊙	315	2200		89-59-17	11						13		
14					270.00-46	11	-10.4	10.8				14		
15												15		
16												16		
17												17		

WORKED BY _____ CHECKED BY 1ST F. Johns 2ND _____

SYMBOLS Δ = BACKSIGHT ⊥ = INSTRUMENT SET-UP SS = SIDESHOT ⊙ = FORESIGHT

HORIZONTAL AND VERTICAL SURVEY NOTES

22

GSI AREA HARRISON BAY STATE/COUNTY AK BOOK NO. 13 PAGE 72 OF
 LINE/LOOP NO. B-81 TYPE SURVEY VERT CLIENT USGS DATE 3 BY 4 MO 81 YR
 SURVEYOR JOHNS 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	<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	Δ	315	2640		90-01-00	11						1		
2					269-59-06	11	+11.6					2		
3	S	316	2200		90-01-17	11						3		
4	S	317	1760		90-02-55	11						4		
5	S	318	1320		90-05-30	11						5		
6	S	319	880		89-54-15	11						6		
7	S	320	440		89-25-21	11						7		
8	⊗	321	-0-			5.6		22.4				8		
9	S	322	440		89-33-30	11						9		
10	S	323	880		89-51-00	11						10		
11	S	324	1320		90-00-00	11						11		
12	S	325	1760		90-02-02	11						12		
13	S	326	2200		90-02-24	11						13		
14	⊙	327	2640		90-01-09	11	-11.7		10.7			14		
15					269-58-58	11						15		
16												16		
17												17		

WORKED BY _____ CHECKED BY 1ST F. Johns 2ND _____

SYMBOLS Δ = BACKSIGHT ⊗ = INSTRUMENT SET-UP SS = SIDESHOT ⊙ = FORESIGHT

HORIZONTAL AND VERTICAL SURVEY NOTES

23

GSI AREA HARRISON BAY STATE/COUNTY AK BOOK NO. 3 PAGE 73 OF
 LINE/LOOP NO. B-81 TYPE SURVEY VERT CLIENT U.S.G.S. DATE 3 BY 4 MO 81 YR
 SURVEYOR JOHNS INSTRUMENT DESC/SERIAL NO. WILD T.2 CREW NO. 1196

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			LR OR DR	RIGHT TURNED HORIZONTAL ANGLE	LINE
				SLOPE	HORIZ					INST	ROD				
1	Δ	327	2640		89-54-31	11	+6.6						1		
2					270-05-35	11							2		
3	S	328	2200		89-54-21.13	11							3		
4	S	329	1760		89-51-34	11							4		
5	S	330	1320		89-48-00	11							5		
6	S	331	880		89-42-22	11							6		
7	S	332	440		89-22-40	11							7		
8	Δ	333	-0-			5.7		17.3					8		
9	S	334	440		89-11-15	11							9		
10	S	335	880		89-25-50	11							10		
11	S	336	1320		89-41-02	11							11		
12	S	337	1760		89-46-10	11							12		
13	S	338	2200		89-47-00	11							13		
14	⊙	339	2640		89-53-36	11							14		
15					270-06-24	11	-5.9	11.3					15		
16													16		
17													17		

WORKED BY _____ CHECKED BY 1ST F. Johns 2ND _____

SYMBOLS Δ = BACKSIGHT Δ = INSTRUMENT SET-UP SS = SIDESHOT ⊙ = FORESIGHT

HORIZONTAL AND VERTICAL SURVEY NOTES

24

GSI AREA HARRISON BAY STATE/COUNTY AK BOOK NO. 3 PAGE 74 OF
 LINE/LOOP NO. B-81 TYPE SURVEY VERT CLIENT U.S.G.S. DATE 2 BY 4 MO 01 YR
 SURVEYOR JOHNS INSTRUMENT DESC/SERIAL NO. WILD T-2 CREW NO. 1186

LINE	<input type="checkbox"/> Δ <input type="checkbox"/> SS <input type="checkbox"/> ⊙	STATION	VERTICAL						ELEVATION		L/R OR DI	RIGHT TURNED HORIZONTAL ANGLE	LINE	REMARKS
			DISTANCE	<input type="checkbox"/> FEET <input type="checkbox"/> METERS	VERTICAL ANGLE OBS.	ROD RDG OR HI	ELEV DIFF	FINAL ELEVATION DIFF	INST	ROD				
			SLOPE	HORIZ										
1	Δ	339	1315		89.54-06	11						1		
2					270.06-02	11		+8.7				2		
3	S	340	880		89.50-40	11						3		
4	S	341	440		89.34-44	11						4		
5	⊥	342	- 0 -		0	5.5			20.			5		
6	S	343	440		89.22-42	11						6		
7	S	344	880		89.48-26	11						7		
8	S	345	1320		89.54-20	11						8		
9	⊙	346	1760		89.55-28	11		-8.6		11.5		9		
10					270.04-44	11						10		
11												11		
12	Δ	346	3080	90-09-50	90-09-50	11						12		
13				269.50-23	269.50-23	11		+19.5				13		
14		347	2640		90-09-04	11						14		
15		348	7200		90-05-06	11						15		
16		349	1760		90-07-30	11						16		
17		350	1320		90-06-44	11						17		

WORKED BY _____ CHECKED BY 1ST F. Johns 2ND _____

SYMBOLS Δ = BACKSIGHT ⊥ = INSTRUMENT SET-UP SS = SIDESHOT ⊙ = FORESIGHT

HORIZONTAL AND VERTICAL SURVEY NOTES

25

GSI AREA HARRISON BAY STATE/COUNTY AK BOOK NO. 3 PAGE 75 OF
 LINE/LOOP NO. B-81 TYPE SURVEY VERT CLIENT USGS DATE 2 BY 4 MO 81 YR
 SURVEYOR JOHNS INSTRUMENT DESC/SERIAL NO. WILD T-2 CREW NO. 1186

LINE	<input type="checkbox"/> Δ <input type="checkbox"/> SS <input type="checkbox"/> ⊙	STATION	VERTICAL						ELEVATION		L/R OR DI	RIGHT TURNED HORIZONTAL ANGLE	LINE	REMARKS
			DISTANCE	<input type="checkbox"/> FEET <input type="checkbox"/> METERS	VERTICAL ANGLE OBS.	ROD RDG OR HI	ELEV DIFF	FINAL ELEVATION DIFF	INST	ROD				
			SLOPE	HORIZ										
1	S	351	880		89-52-06	11						1		
2	S	352	440		89-21-21	11						2		
3	Δ	353	-0-		89-18-48	5.6			31.0			3		
4	S	354	440		89-18-38	11						4		
5	S	355	880		89-42-25	11						5		
6	S	356	1320		89-55-45	11						6		
7	S	357	1760		90-02-42	11						7		
8	S	358	2200		90-09-15	11						8		
9	S	359	2640		90-09-05	11						9		
10	⊙	360	3080		90-08-00	11		+				10		
11					269-52-00	11		-13.0		13.0		11		
12												12		
13												13		
14												14		
15												15		
16												16		
17												17		

WORKED BY _____ CHECKED BY 1ST J. Johns 2ND _____
 SYMBOLS Δ = BACKSIGHT Δ = INSTRUMENT SET-UP SS = SIDESHOT ⊙ = FORESIGHT

HORIZONTAL AND VERTICAL SURVEY NOTES

27

GSI AREA HARRISON BAY STATE/COUNTY AK BOOK NO. 3 PAGE 77 OF
 LINE/LOOP NO. B-81 TYPE SURVEY VERT CLIENT USGS DATE 3 BY 4 MO 81 YR
 SURVEYOR JOHNS INSTRUMENT DESC/SERIAL NO. WILD T-2 CREW NO. 1186

LINE	<input type="checkbox"/> Δ <input type="checkbox"/> SS <input type="checkbox"/> O	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 DJ		RIGHT TURNED HORIZONTAL ANGLE	LINE
				SLOPE					HORIZ	INST				
1	Δ	372	2200		89-52-33	11						1		
2					270-07-32	11	+6.1					2		
3	S	373	1760		89-50-17	11						3		
4	S	374	1320		89-46-16	11						4		
5	S	375	880		89-37-00	11						5		
6	S	376	440		89-11-40	11						6		
7	⊕	377	- 0 -			5.5			10.8			7		
8	S	378	440		89-25-20	11						8		
9	S	379	880		89-41-00	11						9		
10	S	380	1320		89-48-41	11						10		
11	S	381	1760		89-49-57	11						11		
12	S	382	2200		89-52-16	11						12		
13	⊙	383	2640		89-50-20	11						13		
14					270-09-43	11	+3.4		7.4			14		
15												15		
16												16		
17												17		

WORKED BY _____ CHECKED BY 1ST J. Johns 2ND _____

SYMBOLS Δ = BACKSIGHT ⊕ = INSTRUMENT SET-UP SS = SIDESHOT ⊙ = FORESIGHT

HORIZONTAL AND VERTICAL SURVEY NOTES

28

GSI AREA HARRISON BAY STATE/COUNTY AK BOOK NO. 3 PAGE 278 OF
 LINE/LOOP NO. B-81 TYPE SURVEY VERT CLIENT U.S.G.S DATE 2 BY 4 MO 81 YR
 SURVEYOR JOHNS 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		L/R OR D/I
			SLOPE	HORIZ					INST	ROD			
			<input type="checkbox"/> FEET <input type="checkbox"/> METERS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
1	Δ	383	880		89-28-16	11						1	
2					270-31-50	11	+2.8					2	
3	S	384	440		88-29-20	11						3	
4	⊕	385	- 0 -			5.5		10.2				4	
5	S	386	440		89-18-10	11						5	
6	S	387	880		89-37-44	11						6	
7	S	388	1320		89-45-16	11						7	
8	S	389	1760		89-49-12	11						8	
9	S	390	2200		89-50-57	11						9	
10	⊙	WELL	411		88-41-00	6'	3.5	13.7	-	11.8		10 # 81526	
11					271-19-10	6'				TIE = 1.9		11	
12												12	
13												13	
14												14	
15												15	
16												16	
17												17	

WORKED BY _____ CHECKED BY 1ST [Signature] 2ND _____

SYMBOLS Δ = SACKSIGHT ⊕ = INSTRUMENT SET-UP SS = SIDESHOT ⊙ = FORESIGHT

HORIZONTAL AND VERTICAL SURVEY NOTES

29

GSI AREA HARRISON BAY STATE/COUNTY AK BOOK NO. 3 PAGE 79 OF
 LINE/LOOP NO. B 81 TYPE SURVEY VERT CLIENT USGS DATE 2 BY 4 MO 81 YR
 SURVEYOR JOHNS 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	<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	WELL	411'		88-41-00	6'						1		
2					271-19-10	6'						2		
3	⋈	385	-0-			5.5			8.3			3		
4	⊙	391	2640		89-52-54	11					2.0	4		
5					270-07-17	11		-5.3			3.0	5		
6												6		
7	Δ	391	2640		89-52-42	11						7		
8					270 07 13	11		+5.3				8		
9	S	392 TS	2200		89-51-17	11		-5.3			2.9	9		
10	S	393 TS	1760		89-49-00	11		-5.3			3.	10		
11	S	394 TS	1320		89-45-20	11		-5.3			2.9	11		
12	S	395 TS	880		89-38-28	11		-5.5			2.8	12		
13	S	396 TS	444		89-16-37	11		-5.4			2.9	13		
14	⋈	397 TS	-0-			5.5			8.3			14		
15	S	398 TS	440		89-14-22	11		-5.4			2.8	15		
16	S	399 TS	880		89-38-52	11		-5.6			2.7	16		
17	S	400 TS	1320		89-48-51	11		-5.5			2.7	17		

WORKED BY _____ CHECKED BY 1ST J. Johns 2ND _____

SYMBOLS Δ = BACKSIGHT ⋈ = INSTRUMENT SET-UP SS = SIDESHOT ⊙ = FORESIGHT

HORIZONTAL AND VERTICAL SURVEY NOTES

30

GSI AREA HARRISON BAY STATE/COUNTY AK BOOK NO. 13 PAGE 89 OF
 LINE/LOOP NO. B-81 TYPE SURVEY VERT CLIENT USGS DATE 2 BY 4 MO 81 YR
 SURVEYOR JOHNS 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		L/R OR DJI		RIGHT TURNED HORIZONTAL ANGLE	LINE
			SLOPE	HORIZ					INST	ROD				
1	⊙	#01 TS	1760		89 48 46	11		-5.2		3.1			1	
2	⊙	#02 TS	2200		89 51 09	11		-5.2		3.0			2	
3	⊙	#03 TS	2640		89 52 10	11		-4.8		3.4			3	
4					270 07 48	11							4	
5													5	
6													6	
7			E.O.L.										7	
8													8	
9													9	
10													10	
11													11	
12													12	
13													13	
14													14	
15													15	
16													16	
17													17	

WORKED BY _____ CHECKED BY 1ST F. Johns 2ND _____

SYMBOLS Δ = BACKSIGHT ⊕ = INSTRUMENT SET-UP SS = SIDESHOT ⊙ = FORESIGHT