









HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA Barrow STATE/COUNTY Alaska BOOK NO. 2 PAGE 500 OF
 LINE/LOOP NO. 666 TYPE SURVEY CLIENT Husky NPR DATE 9 DY 4 MO 99 YR
 SURVEYOR A. Pendleton INSTRUMENT DESC/SERIAL NO. CREW NO. 1182

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			RIGHT TURNED HORIZONTAL ANGLE
				SLOPE 					HORIZ 	INST		
1									12.3	REFER L-10	1 P. 498 = S.P. 81-LINE 670	
2	A	SP 81 (670)	2640		90 10 07	6.0		+14.1	26.4		2	
3	A		✓		269 49 50	6.0					3	
4		SP 1	2640		90 09 10	6.0		-12.9		13.5	4	
5		2	1760		90 09 20	6.0		-10.7		15.7	5	
6		3	880		90 17 00	5.0		-10.3		16.1	6	
7	K	4	0		90 00 00	5.0		-5.0		21.4	7	
8		5	880		90 01 40	6.0		-6.4		20.0	8	
9		6	1760		90 01 00	6.0		-6.5		19.9	9	
10		7	2640		89 59 40	6.0		-5.6		20.8	10	
11	A	7+550	3190		89 59 20	6.0		-3.3		23.1	11	
12	O		✓		270 02 35	6.0					12	
13											13	
14	A	7+550	3990		89 50 17	6.0		-2.6	20.6		14	
15	A		2970		270 09 41	6.0					15	
16		8	2640		89 59 20	6.0		-5.3		15.3	16	
17		9	1760		90 00 55	6.0		-6.4		14.2	17	

WORKED BY CHECKED BY 1ST 2ND

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

HORIZONTAL AND VERTICAL SURVEY NOTES

2

GSI AREA Beech STATE/COUNTY Alaska BOOK NO. 2 PAGE 501 OF
 LINE/LOOP NO. 166 TYPE SURVEY CLIENT Husky NFR DATE 9 DY 4 MO 79 YR
 SURVEYOR A. Pendleton INSTRUMENT DESC/SERIAL NO. CREW NO. 1182

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			RIGHT TURNED HORIZONTAL ANGLE
				SLOPE					HORIZ	INST		
1									20.6			1
2		SP 10	880		90 00 30	6.0		-6.1		14.5		2
3		11	0		90 00 00	5.0		-5.0		15.6		3
4		12	880		89 57 40	6.0		-5.4		15.2		4
5		13	1760		89 52 30	6.0		-2.1		18.5		5
6		14	2640		89 52 52	6.0		-0.4		20.2		6
7					270 07 01	6.0						7
8												8
9		14	4400		89 54 06	6.0		-1.8	18.5			9
10					270 05 38	6.0						10
11		15	3520		89 57 10	6.0		-2.8		15.7		11
12		16	2640		89 57 20	6.0		-3.8		14.7		12
13		17	1760		89 57 00	6.0		-4.4		14.1		13
14		18	880		89 56 10	6.0		-5.0		13.5		14
15		19	0		90 00 10	5.0		-5.0		13.5		15
16		20	880		89 56 30	6.0		-5.1		13.4		16
17		21	1760		89 57 30	6.0		-5.7		12.8		17

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

HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA Barrow STATE/COUNTY Alaska BOOK NO. 2 PAGE 502 OF
 LINE/LOOP NO. 666 TYPE SURVEY CLIENT Huck NPR DATE 9 DY 4 MO 99 YR
 SURVEYOR A. Pondletov INSTRUMENT DESC/SERIAL NO. CREW NO. 1182

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 DIR	RIGHT TURNED HORIZONTAL ANGLE
				SLOPE					HORIZ	INST			
1									18.5			1	
2		58 22	2640		90 00 20	6.0	-6.1		12.4			2	
3		23	3520		89 58 20	6.0	-4.0		14.5			3	
4		29	4400		90 01 10	6.0	-7.1		11.4			4	
5	⊙	29 +110	4510		89 59 23	6.0	-2.3		16.2			5	
6	⊙		✓		270 02 20	6.0						6	
7		29+										7	
8	A	29+110	4210		89 56 25	6.0	-1.5	17.8				8	
9	A		✓		270 03 16	6.0						9	
10		25	3520		90 00 30	6.0	-6.3		11.5			10	
11		26	2640		89 59 20	6.0	-5.3		12.5			11	
12		27	1760		89 58 10	6.0	-4.9		12.9			12	
13		28	880		89 56 20	6.0	-5.1		12.7			13	
14	⊙	21	0		90 00 10	5.0	-5.0		12.8			14	
15		30	880		89 56 20	6.0	-5.1		12.7			15	
16	⊙	31	1760		89 52 50	6.0	-2.3		15.5			16	
17	⊙		✓		270 09 00	6.0						17	

TI-234718

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HORIZONTAL AND VERTICAL SURVEY NOTES

4

GSI AREA Barrow STATE/COUNTY Alaska BOOK NO. 2 PAGE 503 OF
 LINE/LOOP NO. 666 TYPE SURVEY CLIENT Dushy NPR DATE 9 DY 4 MO 99 YR
 SURVEYOR A. Peed/John INSTRUMENT DESC/SERIAL NO. CREW NO. 1182

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	ELEVATION		RIGHT TURNED HORIZONTAL ANGLE	LINE		
			SLOPE	HORIZ				FEET	METERS				INST
1												1	
2	Δ	30 32	1620		90 39 46	6.0	-23.5	39.0				2	
3	Δ	31			869 25 05	1.0						3	
4	⊥	79159	0		90 00 00	5.6	-5.6	33.4				4	
5	⊙	79159	0		90 00 00	5.6	-5.6	33.4			79159-BARR	5	
6	⊙				270 00 00	5.6		33.0			79154-1182	6	
7												7	
8											MISSILE	8	
9												9	
10								15.5			REFEL L-16	10	P-502
11	Δ	30 31	1430		89 51 20	1.0	+2.4	18.0				11	
12					270 00 20	6.0						12	
13		32	550		89 54 30	1.0	-5.1	12.9				13	
14	⊥	32+550	0		90 00 00	5.0	-5.0	13.0				14	
15		33	330		89 56 10	6.0	-5.6	12.4				15	
16		34	1210		89 57 40	6.0	-5.2	12.8				16	
17												17	

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

HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA Bacon STATE/COUNTY Alaska BOOK NO. 2 PAGE 509 OF
 LINE/LOOP NO. 666 TYPE SURVEY CLIENT Husky NPA DATE 9 DY 9 MO 99 YR
 SURVEYOR A. Pendleton INSTRUMENT DESC/SERIAL NO. CREW NO. 1182

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			
1												1	
2	⊙	SP 35	2090		89 58 24	6.0	-5.0		13.0			2	
3	⊙		✓		270 01 20	6.0						3	
4												4	
5	Δ	35	4900		89 59 50	6.0	+5.5	18.6				5	
6	Δ		✓		270 00 04	6.0						6	
7		36	3520		89 59 30	6.0	-5.2		13.4			7	
8		37	2690		89 59 10	6.0	-5.2		13.4			8	
9		38	1760		89 59 00	6.0	-5.4		13.2			9	
10		39	880		89 59 40	6.0	-5.6		13.0			10	
11	⊙	40	0		90 00 00	5.0	-5.0		13.6			11	
12		40 + 821	821		89 57 10	6.0	-5.3		13.3		Intersection	12	40 + 821 / SP 36 + 313
13		36 (659W)	880 570		89 59 50	6.0	-5.1		13.5			13	(659W)
14		41	880		89 55 10	6.0	-4.8		13.8			14	
15		42	1760		89 55 10	6.0	-3.5		15.1			15	
16	⊙	43	2690		89 49 25	6.0	+6.1		24.7			16	
17	⊙				270 15 31	6.0						17	

TI-23471B

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HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA Barrow STATE/COUNTY Alaska BOOK NO. 2 PAGE 505 OF
 LINE/LOOP NO. 666 TYPE SURVEY CLIENT Husky NPA DATE 9 DY 4 MO 7 YR
 SURVEYOR A. Pen/Netw INSTRUMENT DESC/SERIAL NO. CREW NO. 182

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
				SLOPE					HORIZ	INST		
1											1	
2	A	SP 93	4400		90 00 35	6.0	+6.4	32.2			2	
3	A	✓			269 59 17	6.0					3	
4		19	3520		90 01 00	6.0	-6.8		25.4		4	
5		45	2690		90 02 30	6.0	-7.8		24.4		5	
6		46	1760		90 00 10	6.0	-6.0		26.2		6	
7		47	880		89 57 50	6.0	-5.4		26.8		7	
8	π	48	0		90 00 00	5.0	-5.0		27.2		8	
9		49	880		89 52 55	6.0	-4.2		28.0		9	
10		50	1760		89 46 40	6.0	-0.9		31.3		10	
11		51	2640		89 49 10	6.0	+2.5		34.7		11	
12	0	52	3520		89 52 30	6.0	+1.9		33.1		12	
13	0	✓			270 07 25	6.0					13	
14											14	
15	A	52	4400		89 55 56	6.0	+0.4	33.7			15	
16	A	✓			270 09 04	6.0					16	
17		53	3520		89 55 10	6.0	-0.8		32.9		17	

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

HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA B. arroyo STATE/COUNTY Alaska BOOK NO. 2 PAGE 506 OF
 LINE/LOOP NO. 666 TYPE SURVEY CLIENT Husk, NPR DATE 9 DY 4 MO 79 YR
 SURVEYOR A. Penn/letw INSTRUMENT DESC/SERIAL NO. CREW NO. 1182

LINE	<input type="checkbox"/> Δ <input type="checkbox"/> SS <input type="checkbox"/> \odot	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	
				SLOPE					HORIZ	INST			ROD
1									33.7		1		
2		SP 54	2640		89 55 40	6.0		-2.5		31.2		2	
3		55	1760		89 58 50	6.0		-5.3		28.4		3	
4		56	880		90 03 40	6.0		-6.9		26.8		4	
5	$\bar{\wedge}$	57	0		90 00 00	5.0		-5.0		28.7		5	
6		58	880		90 27 00	6.0		-12.9		20.8		6	
7		59	1760		90 18 30	6.0		-15.4		18.3		7	
8	\odot	60	2640		90 12 40	6.0		-15.7		18.0		8	
9	\odot	✓			289 47 08	6.0						9	
10												10	
11	$\bar{\wedge}$	60	4400		89 56 27	6.0		+1.1	19.3			11	
12	$\bar{\wedge}$	✓	✓		270 03 27	6.0						12	
13		61	3520		90 00 16	6.0		-6.0		13.3		13	
14		62	2640		89 59 40	6.0		-5.6		13.7		14	
15		63	1760		89 59 10	6.0		-5.5		13.8		15	
16		64	880		89 57 00	6.0		-5.7		13.6		16	
17	$\bar{\wedge}$	65	0		90 00 00	5.0		-5.0		14.3		17	

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HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA Barrow STATE/COUNTY Alaska BOOK NO. 2 PAGE 507 OF
 LINE/LOOP NO. 666 TYPE SURVEY CLIENT Husky NPR DATE 9 DY 4 MO 99 YR
 SURVEYOR A Pendleton INSTRUMENT DESC/SERIAL NO. CREW NO. 1182

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			RIGHT TURNED HORIZONTAL ANGLE	LINE
				SLOPE					HORIZ	INST			
1									19.3			1	
2		58 66	880		89 58 00	6.0	-5.5		13.8			2	
3		67	1260		99 57 30	6.0	-4.9		14.6			3	
4		68	2640		99 58 40	6.0	-4.8		14.5			4	
5		69	3520		89 59 10	6.0	-4.9		14.4			5	
6		70	4900		90 00 16	6.0	-6.0		13.3			6	
7					269 59 42	6.0						7	
8												8	
9		70	4900		89 59 35	6.0	-2.5	16.1				9	
10					270 02 23	6.0						10	
11		71	3520		89 59 40	6.0	-5.4		10.7			11	
12		72	2640		99 57 40	6.0	-4.1		12.0			12	
13		72+258	2640		90 03 15	3.0	-5.4		10.7		= S.P. 72+	13	58/666
14		27 (624)	2650		89 59 00	6.0	-5.1		11.0		= S.P. 26+	14	697/624
15		73	1760		89 58 30	6.0	-5.2		10.9			15	
16		74	880		89 58 40	6.0	-5.6		10.5			16	
17		75	0		90 01 00	5.0	-5.0		11.1			17	

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HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA Bearaw STATE/COUNTY Alaska BOOK NO. 2 PAGE 508 OF
 LINE/LOOP NO. 666 TYPE SURVEY CLIENT Husky NPR DATE 9 DY 4 MO 79 YR
 SURVEYOR Ai Pendleton INSTRUMENT DESC/SERIAL NO. CREW NO. 1182

LINE	<input type="checkbox"/> Δ <input type="checkbox"/> SS <input type="checkbox"/> \odot	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
				SLOPE					HORIZ	INST		
1									16.1			1
2		SP 76	880		89 59 40	6.0		-5.9		10.2		2
3		77	1760		89 59 20	6.0		-5.6		10.5		3
4		78	2640		89 57 50	6.0		-4.2		11.9		4
5		79	3520		89 59 40	6.0		-5.9		10.7		5
6	θ	80	4410		89 57 07	6.0		-2.0		14.1		6
7	θ		4		270 02 46	6.0						7
8												8
9	A	80	4406		89 59 13	6.0		+2.2	16.5			9
10	A				270 02 36	6.0						10
11		81	3526		89 56 30	6.0		-2.2		14.3		11
12		82	2646		89 56 10	6.0		-2.9		13.6		12
13		83	1766		89 55 20	6.0		-3.6		12.9		13
14		84	880		89 57 10	6.0		-5.3		11.2		14
15	π	85	0		90 00 10	5.6		-5.6		11.5		15
16		86	880		89 59 30	6.0		-5.9		10.6		16
17	π	86 + 665	1545		89 59 20	6.0		-5.7		10.8	Intersection	17

= 5P. 39 + 6.44 / 12.10
 = 86 + 665 / 666

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SYMBOLS Δ = BACKSIGHT π = INSTRUMENT SET-UP SS = SIDESHOT \odot = FORESIGHT

HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA Barrow STATE/COUNTY Alaska BOOK NO. 2 PAGE 509 OF
 LINE/LOOP NO. 666 TYPE SURVEY CLIENT Musky NPR DATE 9 DY 4 MO 99 YR
 SURVEYOR A. Pendleton INSTRUMENT DESC/SERIAL NO. CREW NO. 1182

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
				SLOPE					HORIZ	INST			
1		90							16.5			1	
2		SP 34 175XW	1560		89 59 30	6.0		-3.7		10.8		2	
3		87	1760		90 02 00	6.0		-7.0		9.5		3	
4		88	2640		90 02 40	6.0		-7.9		8.6		4	
5		89	3520		90 01 22	6.0		-7.1		9.4		5	
6	⊙	90	4400		90 01 40	6.0		-7.8		8.7		6	
7	⊙		✓		269 58 18	6.0						7	
8												8	
9	Δ	90	2340		89 46 50	6.0		-3.1	5.6			9	
10	Δ		✓		270 13 07	6.0						10	
11		91	1460		89 38 00	6.0		+3.2		8.8		11	
12	⊗	TP 1	0		90 00 00	5.6		-5.6		0.0		12	
13	⊙	Sea level	0		270 00 00	5.6		-5.6		0.0	=	BARO Sea Level	
14	⊙				270 00 00	5.6				1.1	=	1182 Sea level	
15												15	
16												16	
17												17	

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