

# HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA Barrow STATE/COUNTY Alaska BOOK NO. 3 PAGE 543 OF 551C  
 LINE/LOOP NO. 170 TYPE SURVEY \_\_\_\_\_ CLIENT Husky NPR DATE 11 BY 1 MO 79 YR  
 SURVEYOR A. Pendleton INSTRUMENT DESC/SERIAL NO. \_\_\_\_\_ CREW NO. 1182










LINE	△ SS ⊙	STATION	VERTICAL							HORIZONTAL		REMARKS			
			DISTANCE	□ FEET □ 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															
2	A	SP 166 (671)	1760		89 32 40	9.0		35.1	27.6				← Refer to P-1	534 L-11	
3	A	= SP 3	✓		270 27 30	9.0							Intersection	671 SP 166	
4		2	880		89 49 50	9.0		-5.9		21.7				670 SP 3	
5	π	1	0		90 01 00	5.0		-5.0		22.6				680	
6		TS 1	880		90 05 30	9.0		-5.9		22.2					
7		2	1710		90 00 00	9.0		-4.0		23.6					
8		3	2140		90 00 20	9.0		-4.1		23.5					
9		4	3520		89 59 50	9.0		-3.6		24.0					
10		5	4400		89 59 00	9.0		-4.8		22.8					
11		6	5280		89 58 50	9.0		-6.6		21.0					
12		x								32.7			REFER LINE 1		
13	A	SP 3	4400		89 48 47	8.9		-6.0	26.7						
14	A	(SP 166-4/671)	✓		270 11 22	8.9									
15		167 (421)	4495		99 57 55	9.0		-5.9		20.8					
16		7	3520		89 47 40	9.0		+3.9		30.6					
17		5	2140		89 47 50	9.0		+0.5		27.2					

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

# HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA Barrow STATE/COUNTY Alaska BOOK NO. 3 PAGE 552 OF 544  
 LINE/LOOP NO. 680 TYPE SURVEY \_\_\_\_\_ CLIENT Husky NPR DATE 16 BY 4 MO 29 YR  
 SURVEYOR A. Pendleton INSTRUMENT DESC/SERIAL NO. \_\_\_\_\_ CREW NO. 1182

LINE	   	STATION	VERTICAL						ELEVATION		HORIZONTAL		REMARKS	
			DISTANCE	<input type="checkbox"/> FEET <input type="checkbox"/> METERS		VERTICAL ANGLE OBS.	ROD RDG OR HI	ELEV DIFF	FINAL ELEVATION DIFF	INST	ROD	L/R OR DI		RIGHT TURNED HORIZONTAL ANGLE
				SLOPE 	HORIZ 									
1									26.7				1	
2		SP 6	1760		90 00 00	9.0	-7.9		17.8				2	
3		7	880		89 42 40	9.0	-6.1		20.6				3	
4		 8	0		90 01 00	3.0	-5.0		21.7				4	
5		9	880		89 47 10	9.0	-5.7		21.0				5	
6		10	1760		89 53 20	9.0	-5.5		21.2				6	
7		11	2640		89 50 40	9.0	-6.3		20.4				7	
8		12	3520		89 53 20	9.0	-5.3		21.4				8	
9		13	4400		90 01 51	9.0	-11.0		15.7				9	
10		13+110	4510		90 02 00	9.0	-11.2		15.5				10	
11			✓		269 58 00	9.4							11	
12													12	
13		 13+110	4390		90 00 26	9.0	+9.1		24.6				13	
14		 14	✓		219 59 38	9.0							14	
15		14	3520		89 57 30	9.0	-6.2		18.4				15	
16		15	2640		89 53 40	9.0	-9.0		20.6				16	
17		16	1760		89 51 10	9.0	-4.4		20.2				17	

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# HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA Barrow STATE/COUNTY Alaska BOOK NO. 3 PAGE 553 / 545 OF       
 LINE/LOOP NO. 680 TYPE SURVEY      CLIENT Husky NPR DATE 16 DY 4 MO 79 YR  
 SURVEYOR A Pendleton INSTRUMENT DESC/SERIAL NO.      CREW NO. 1182

LINE	△ ↑ SS ◎	STATION	VERTICAL						ELEVATION		LR 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										24.6			1	
2		SP 17	880		89 50 00	9.0		-6.6		18.0			2	
3	⊗	18	0		90 00 00	9.0		-5.0		19.6			3	
4		19	880		89 46 00	9.0		-5.4		19.2			4	
5		20	1240		89 56 30	9.0		-7.1		17.5			5	
6		21	2640		90 02 20	9.0		-10.7		13.9			6	
7		22	3520		89 57 30	9.0		-6.2		18.4			7	
8	⊙	23	4400		89 57 56)	9.0		-6.0		18.6			8	
9	⊙		4		270 02 00)	9.0							9	
10													10	
11	△	23	4900		89 57 30)	9.0		+5.3	23.9				11	
12	△		4		270 02 38)	9.0							12	
13		24	3520		89 58 20	9.0		-7.0		16.9			13	
14		25	2640		89 57 20	9.0		-6.8		17.1			14	
15		26	1760		89 55 10	9.0		-6.5		17.4			15	
16		27	880		90 00 00	9.0		-9.0		14.9			16	
17		28	0		90 00 00	5.0		-5.0		18.9			17	

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# HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA Barrow STATE/COUNTY Alaska BOOK NO. 3 PAGE 554 OF 546  
 LINE/LOOP NO. 680 TYPE SURVEY \_\_\_\_\_ CLIENT Husky NPR DATE 26 BY 4 MO 29 YR  
 SURVEYOR A. Pendleton INSTRUMENT DESC/SERIAL NO. \_\_\_\_\_ CREW NO. 1192

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 DJ	RIGHT TURNED HORIZONTAL ANGLE
				SLOPE 					HORIZ 	INST			
1									23.9				1
2		SP 29	880		89 50 20	9.0	-6.5		17.4				2
3		30	1760		89 57 10	9.0	-7.5		16.4				3
4		31	2640		89 56 30	9.0	-6.2		17.7				4
5		32	3520		89 59 10	9.0	-7.9		16.0				5
6	⊙	33	4400		89 59 26	9.0	-7.9		16.0				6
7	⊙		✓		270 00 33	9.0							7
8													8
9	Δ	33	4410		89 58 05	9.0	+6.0	22.0					9
10	Δ		✓		270 02 05	9.0							10
11		34	3520		89 57 00	9.0	-5.7		16.3				11
12		35	2640		89 56 00	9.0	-5.8		16.2				12
13		36	1760		89 52 50	9.0	-5.3		16.7				13
14		37	880		89 48 00	9.0	-5.9		16.1				14
15	Δ	38	0		90 00 00	5.0	-5.0		17.0				15
16		39	880		89 47 40	9.0	-5.8		16.2				16
17		41	1760		89 59 30	9.0	-6.1		15.9				17

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# HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA Barrow STATE/COUNTY Alaska BOOK NO. 3 PAGE 555 OF 549  
 LINE/LOOP NO. 680 TYPE SURVEY \_\_\_\_\_ CLIENT Husky NPR DATE 16 BY 1 MO 79 YR  
 SURVEYOR D. Pendleton INSTRUMENT DESC/SERIAL NO. \_\_\_\_\_ CREW NO. 1182

LINE	  	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									22.0			1		
2		42	2440 1760			89 49 05	9.0		-3.3		(18.7)		2	
3						270 11 00	9.0						3	
4													4	
5		42	3520			89 48 45	9.0		-2.8	15.9			5	
6						270 11 20	9.0						6	
7		42	2640			89 52 30	9.0		-3.1		12.8		7	
8		43	1760			89 52 50	9.0		-5.3		10.6		8	
9		44	880			89 45 40	9.0		-5.3		10.6		9	
10		45	0			90 00 00	5.0		-5.0		10.9		10	
11		46	880			89 44 10	9.0		-4.9		11.0		11	
12		47	1760			89 54 00	9.0		-5.9		10.0		12	
13		48	2640			89 55 10	9.0		-5.1		10.8		13	
14		49	3520			89 56 40	9.0		-5.3		10.6		14	
15		50	4400			89 57 36	9.0		-5.5		10.4		15	
16						270 02 25	9.0						16	
17													17	






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# HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA BARROW STATE/COUNTY ALASKA BOOK NO. 3 PAGE 556 OF 598  
 LINE/LOOP NO. 680 TYPE SURVEY \_\_\_\_\_ CLIENT AUSKY NPA DATE 17 BY 4 MO 79 YR  
 SURVEYOR T. SHANLEY INSTRUMENT DESC/SERIAL NO. \_\_\_\_\_ CREW NO. 1182

LINE	  	STATION	VERTICAL						ELEVATION		L/R OR DI	RIGHT TURNED HORIZONTAL ANGLE	LINE	REMARKS	
			DISTANCE	FEET METERS		VERTICAL ANGLE OBS.	ROD RDG OR HI	ELEV DIFF	FINAL ELEVATION DIFF	ELEVATION					
				SLOPE 	HORIZ 					INST					ROD
1										10.4			1		
2	A	50 50	3520			89 54 40	9.0	+3.3	13.7				2		
3	A		✓			270 05 20	9.0						3		
4		51	2640			89 52 50	9.0	-3.4		10.3			4		
6		52	1760			89 48 30	9.0	-3.1		10.6			5		
6		53	880			89 37 40	9.0	-3.3		10.4			6		
7	K	54	0			90 —	5.0	-5.0		8.7			7		
8		55	880			89 44 00	9.0	-4.9		8.8			8		
9		56	1760			89 52 20	9.0	-5.0		8.7			9		
10		57	2640			89 53 20	9.0	-3.7		10.0			10		
11	O	58	3520			89 55 40	9.0	-4.2		9.5			11		
12	O		✓			270 04 30	9.0						12		
13													13		
14	A	58	3520			89 58 10	9.0	+6.7	16.2				14		
15	A		✓			270 02 10	9.0						15		
16		59	2640			89 58 20	9.0	-7.6		8.6			16		
17		60	1760			89 59 20	9.0	-8.6		7.6			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. 3 PAGE 557 OF 549  
 LINE/LOOP NO. 680 TYPE SURVEY \_\_\_\_\_ CLIENT HUSKY 114 DATE 17 DY 4 MO 79 YR  
 SURVEYOR T. SHERWILL INSTRUMENT DESC/SERIAL NO. \_\_\_\_\_ CREW NO. 1182

LINE	  	STATION	VERTICAL						ELEVATION		LR 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									16.2				1		
2		S-1. 61	880			89 52 40	9.0	-7.1		9.1			2		
3		62	0			90 —	5.0	-5.0		11.2			3		
4		63	880			89 52 10	9.0	-7.0		9.2			4		
5		64	1760			89 57 10	9.0	-7.5		8.7			5		
6		65	2640			89 59 50	9.0	-8.7		7.5			6		
7		66	3520			90 00 40	9.0	-9.2		7.0			7		
8			✓			89 59 40	9.0						8		
9													9		
10		66	3520			89 57 30	9.0	+6.0	13.0				10		
11			✓			270 02 50	9.0						11		
12		67	2640			89 55 10	9.0	-5.3		7.7			12		
13		68	1760			89 51 30	9.0	-4.6		8.4			13		
14		69	880			89 48 00	9.0	-5.9		7.1			14		
15		70	0			90 —	5.0	-5.0		8.0			15		
16		71	880			90 00 00	9.0	-2.0		4.0			16		
17		72	1760			89 55 10	9.0	-6.5		6.5			17		

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# HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA BARROW STATE/COUNTY ALASKA BOOK NO. 3 PAGE 558 OF 550  
 LINE/LOOP NO. 600 TYPE SURVEY \_\_\_\_\_ CLIENT HUSKY NMR DATE 17 DY 4 MO 79 YR  
 SURVEYOR T. SHERKILL 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 checked="" 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									13.0			1		
2		S.P. 73	26.40		90 00 00	9.0		-8.9		4.1			2	
3	⊙	S.P. 74	35.20		90 03 30	9.0		-12.2		0.0			3	
4	⊙		✓		269 56 40	9.0							4	
5													5	
6	Δ	74	35.20		90 01 40	9.0		+10.5	11.3				6	
7	⊙		✓		269 58 20	9.0							7	
8		75	26.40		90 02 00	9.0		-10.4		0.9			8	
9		76	17.60		90 03 10	9.0		-10.6		0.7			9	
10		77	8.80		89 47 50	9.0		-5.9		5.4			10	
11	⊙	78	0		90 —	5.0		-5.0		6.3			11	
12		79	8.80		89 42 40	9.0		-4.6		6.7			12	
13		80	17.60		89 53 10	9.0		-5.4		5.9			13	
14		81	26.40		90 02 10	9.0		-10.5		0.8			14	
15		82	35.20		89 56 00	9.0		-4.7		6.6			15	
16	⊙	83	4.400		89 58 10	9.0		-6.2		5.1			16	
17	⊙		✓		270 02 00	9.0							17	

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# HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA BARROW STATE/COUNTY ALASKA BOOK NO. 3 PAGE 559 OF 551  
 LINE/LOOP NO. 680 TYPE SURVEY \_\_\_\_\_ CLIENT HUSKY NMR DATE 17 DY 4 MO 79 YR  
 SURVEYOR T. SHERRILL 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	LINE	
				SLOPE					HORIZ	INST					ROD
1												5.1		1	
2	Δ	51.83	4400		89 53 50	90		+0.7		5.8				2	
3	Δ		✓		270 06 10	90								3	
4		84	3520		89 52 00	90		-0.5		5.3				4	
5		85	26.4		89 49 10	90		-0.5		5.3				5	
6		86	1760		89 42 00	90		+0.3		6.1				6	
7		87	880		89 29 10	90		-1.1		4.7				7	
8	π	88	0		90 —	50		-5.0		3.8				8	
9		89	880		89 51 00	90		-6.7		-0.9				9	
10		90	1760		89 49 30	90		-3.6		2.2				10	
11		91	2640		89 49 40	90		-0.9		4.9				11	
12		92	3520		89 52 50	90		-1.4		4.4				12	
13	○	93	4400		89 54 50	90		-2.0		3.8				13	
14	○		✓		270 05 10	90								14	
15														15	
16	Δ	93	4400		89 56 30	90		+4.1		7.9				16	
17	Δ		✓		270 03 30	90								17	

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# HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA BARLOW STATE/COUNTY ALASKA BOOK NO. 3 PAGE 560 OF 552  
 LINE/LOOP NO. 680 TYPE SURVEY \_\_\_\_\_ CLIENT HUSKY-NPR DATE 17 BY 4 MO 79 YR  
 SURVEYOR T. SKERRILL INSTRUMENT DESC/SERIAL NO. \_\_\_\_\_ CREW NO. 1182

LINE	  	STATION	VERTICAL						ELEVATION		LR OR DI	HORIZONTAL		REMARKS
			DISTANCE	<input type="checkbox"/> FEET <input type="checkbox"/> METERS	VERTICAL ANGLE OBS.	ROD RDG OR HI	ELEV DIFF	FINAL ELEVATION DIFF	INST	ROD		RIGHT TURNED HORIZONTAL ANGLE	LINE	
				SLOPE 										
1										7.9			1	
2		S.P. 94	3520		89 56 30	9.0	-5.2			2.7			2	
3		95	2640		89 55 50	9.0	-5.7			2.2			3	
4		96	1760		89 54 00	9.0	-5.9			2.0			4	
5		97	880		89 43 20	9.0	-4.7			3.2			5	
6		98	0		90 —	5.0	-5.0			2.9			6	
7		99	880		89 53 00	9.0	-7.2			0.7			7	
8		100	1760		89 56 10	9.0	-7.0			0.9			8	
9		101	2640		89 56 50	9.0	-6.4			1.5			9	
10		102	3520		89 58 00	9.0	-6.7			1.2			10	
11		103	4400		89 59 00	9.0	-7.3			0.6			11	
12			✓		270 01 00	9.0							12	
13													13	
14		103	4400		89 58 10	9.0	+6.3			6.9			14	
15			✓		270 01 50	9.0							15	
16		104	3520		89 58 00	9.0	-6.7			0.2			16	
17		105	2640		89 58 30	9.0	-5.4			1.5			17	

TI-23471B

WORKED BY \_\_\_\_\_ CHECKED BY 1ST \_\_\_\_\_ 2ND \_\_\_\_\_

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

# HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA Barrow STATE/COUNTY ALASKA BOOK NO. \_\_\_\_\_ PAGE 561 OF 553  
 LINE/LOOP NO. 680 TYPE SURVEY \_\_\_\_\_ CLIENT Husky NRR DATE 17 DY 4 MO 79 YR  
 SURVEYOR T. SHERKILL INSTRUMENT DESC/SERIAL NO. \_\_\_\_\_ CREW NO. 1182

LINE	△ ↑ SS ○	STATION	VERTICAL							HORIZONTAL		REMARKS		
			DISTANCE	FEET 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	ROD			
1										6.9			1	
2		S.P. 106	1760		89 52 20	9.0	-5.0			1.9			2	
3		107	880		89 49 40	9.0	-6.3			0.6			3	
4	⊥	108	0		90 —	5.0	-5.0			1.9			4	
5		109	880		89 49 00	9.0	-6.2			0.7			5	
6		110	1760		89 55 50	9.0	-6.8			0.1			6	
7		111	2640		89 57 20	9.0	-6.8			0.1			7	
8		112	3520		89 57 40	9.0	-6.4			0.5			8	
9	○	△ PIKPAK	4725		90 —	5.7	-5.1			2.0		PIKPAK - USGS	9	
10	○				270 —	5.5				1.8		PIKPAK - 1182	10	
11													11	
12										± 0.2		MISTIE	12	
13												TIE FROM	13	S.P. 59+597 ON
14												L 671 TO	14	S.P. 166 ON L-671
15												AND NORTH	15	TO △ PIKPAK
16													16	
17													17	

TAIL SPREAD ON BAY = SEA LEVEL

WORKED BY \_\_\_\_\_ CHECKED BY 1ST \_\_\_\_\_ 2ND \_\_\_\_\_  
 SYMBOLS    △ = BACKSIGHT    ⊥ = INSTRUMENT SET-UP    SS = SIDESHOT    ○ = FORESIGHT