

HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA BARROW STATE/COUNTY ALASKA BOOK NO. 2 PAGE 329 OF
 LINE/LOOP NO. K 663 TYPE SURVEY CLIENT HUSKY NRK DATE 12 DY 3 MO 79 YR
 SURVEYOR T. SPILLILL INSTRUMENT DESC/SERIAL NO. CREW NO. 1182

LINE	 	STATION	VERTICAL						ELEVATION		L/R OR D/I	RIGHT TURNED HORIZONTAL ANGLE	LINE	REMARKS
			DISTANCE	<input checked="" type="checkbox"/> FEET <input type="checkbox"/> METERS	VERTICAL ANGLE OBS.	ROD RDG OR HI	ELEV DIFF	FINAL ELEVATION DIFF	INST	ROD				
			SLOPE	HORIZ										
1														
2		79128	2603		90 01 00	90 }	+9.6			55.9		79128		
3		SR 98+1283-4609	✓		269 59 10	90 }								
4		SR 97 - Line 609	0		90 —	50	-5.0							
5		INT L-609/K	2640		90 04 00	90 }	-11.8		52.8					INT = SR 95/609
6			✓		269 56 20	90 }								= SR 3/K
7														
8		S.P. 3 - LINE K	2640		90 08 00	90 }	+14.9	68.5						
9		INT 609/K	✓		269 52 20	90 }								
10		2	1320		89 56 30	90	-7.6		60.9					
11		1	0		90 —	50	-5.0		63.5					
12		T.S. 1	1320		89 57 20	90	-7.9		60.6					
13		2	2640		89 59 20	90	-8.3		60.2					
14		3	3960		89 58 10	90	-6.6		61.9					
15		4	5280		89 59 20	90	-7.4		61.1					
16		5	6600		89 58 10	90	-4.6		63.9					
17		6	7920		89 58 30	90	-4.3		64.2					

TI-23471B

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SYMBOLS

= BACKSIGHT

= INSTRUMENT SET-UP

SS = SIDESHOT

= FORESIGHT

HORIZONTAL AND VERTICAL SURVEY NOTES

2

GSI AREA BARROW STATE/COUNTY ALASKA BOOK NO. 2 PAGE 330 OF
 LINE/LOOP NO. X663 TYPE SURVEY CLIENT HUSKY N/A DATE 12 DY 3 MO 29 YR
 SURVEYOR T. SHOLLER 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		L/R OR DJ		RIGHT TURNED HORIZONTAL ANGLE	LINE
				SLOPE					HORIZ	INST				
1									52.8		REFEL L-5	1		
2	Δ	INT 604K	3960		89 54 50	9.0	+2.5	55.3			P. 329	2		
3	Δ	SP3-LWEK	✓		270 05 30	9.0						3		
4		4	2640		90 23 00	9.0	-26.5		28.8			4		
5		5	1320		90 25 40	9.0	-18.8		36.5			5		
6	π	6	0		90 —	5.0	-5.0		50.3			6		
7		7	1320		89 22 10	9.0	+5.6		49.7			7		
8	o	7+495	1815		89 35 10	9.0	+4.3		59.1			8		
9	o		✓		270 25 10	9.0						9		
10												10		
11	Δ	7+495	3465		89 58 50	9.0	+7.3	66.4				11		
12	o		✓		270 01 40	9.0						12		
13		8	2640		89 57 40	9.0	-7.1		59.3			13		
14		9	1320		89 56 20	9.0	-7.6		58.8			14		
15	π	10	0		90 —	5.0	-5.0		61.4			15		
16		11	1320		90 01 00	9.0	-9.4		57.0			16		
17		12	2640		89 54 50	9.0	-4.9		61.5			17		

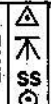









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SYMBOLS Δ = BACKSIGHT π = INSTRUMENT SET-UP SS = SIDESHOT o = FORESIGHT

HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA BARLOW STATE/COUNTY ALASKA BOOK NO. 2 PAGE 331 OF
 LINE/LOOP NO. X 663 TYPE SURVEY CLIENT HUSKY NFR DATE 12 DY 3 MO 79 YR
 SURVEYOR T. SHERIDAN INSTRUMENT DESC/SERIAL NO. CREW NO. 1182

LINE		STATION	VERTICAL						ELEVATION		L/R OR DJ	HORIZONTAL		REMARKS
			DISTANCE	<input checked="" 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													1	
2		St. 13	3960		89 50 30	9.0	+2.6		67.8				2	
3			✓		270 10 00	9.0							3	
4													4	
5		13	1815		90 06 40	9.0	+12.4	80.2					5	
6			✓		269 53 60	9.0							6	
7		14	425		89 34 50	9.0	-5.4		74.8				7	
8		14 + 425	0		90 —	5.0	-5.0		75.2				8	
9		15	825		90 36 00	9.0	-17.6		62.6				9	
10		16	2145		90 19 40	9.0	-21.2		59.0				10	
11		17	3465		90 11 20	9.0	-20.2		60.0				11	
12		18	4785		90 08 00	9.0	-19.3		59.3				12	
13			✓		269 52 30	9.0							13	
14													14	
15		18	3960		89 56 30	9.0	+4.7	64.0					15	
16			✓		270 03 30	9.0							16	
17		19	2640		89 55 30	9.0	-5.4		59.6				17	

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HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA BARLOW STATE/COUNTY ALASKA BOOK NO. 2 PAGE 332 OF
 LINE/LOOP NO. 663 TYPE SURVEY CLIENT HUSKY APP DATE 13 DY 3 MO 79 YR
 SURVEYOR T. SHERMAN INSTRUMENT DESC/SERIAL NO. CREW NO. 1182

LINE	 	STATION	VERTICAL						ELEVATION		L/R OR DI	HORIZONTAL		REMARKS
			DISTANCE	<input checked="" 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	HORIZ										
1									64.0				1	
2		S.P. 20	1320		89 50 40	9.0	-5.4			59.6			2	
3		21	0		90 —	5.0	-5.0			59.0			3	
4		22	1320		89 50 30	9.0	-5.3			58.7			4	
5		23	2640		89 57 40	9.0	-7.1			56.9			5	
6		24	3960		89 55 10	9.0	-3.0			59.8			6	
7					270 05 00	9.0							7	
8													8	
9		24	3960		89 57 20	9.0	+5.5		65.3				9	
10			✓		270 02 50	9.0							10	
11		25	2640		89 54 30	9.0	-4.6			60.7			11	
12		26	1320		90 01 00	9.0	-4.4			60.9			12	
13		27	0		90 —	5.0	-5.0			60.3			13	
14		28	1320		89 40 20	9.0	-1.4			63.9			14	
15		29	2640		89 54 50	9.0	-4.9			60.4			15	
16		INT 663/606	3378		89 56 40	9.0	-5.2			59.0			16	= S.P. 55 + 1096
17		S.P. 29 + 738	✓		270 03 50	9.0							17	= S.P. 29 + 738

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HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA BARROW STATE/COUNTY ALASKA BOOK NO. 2 PAGE 333 OF
 LINE/LOOP NO. 663 TYPE SURVEY CLIENT HUSKY NR DATE 13 DY 3 MO 29 YR
 SURVEYOR T. SHERKIN INSTRUMENT DESC/SERIAL NO. CREW NO. 1102

LINE		STATION	VERTICAL						ELEVATION		L/R OR DI	RIGHT TURNED HORIZONTAL ANGLE	LINE	REMARKS
			DISTANCE	<input checked="" type="checkbox"/> FEET <input type="checkbox"/> METERS	VERTICAL ANGLE OBS.	ROD RDG OR HI	ELEV DIFF	FINAL ELEVATION DIFF	INST	ROD				
			SLOPE	HORIZ										
1												1		
2	Δ	INT 663/606	3523		90 03 20	90		+12.8				2		
3	Δ	=S.P. 29+738	✓		269 57 20	90						3		
4	π	79118	0		90 —	50						4		
5	\odot	=53+219/606	0		90 —	50		-50	65.8		79118-BALL	5		
6	\odot	79118	0		270 —	50					79118-182	6		
7											MISSTIE	7		
8												8		
9												9		
10									65.8		79118	10		
11	Δ	79118	0		90 —	50		+50	70.9			11		
12	Δ	=53+219/606	0		270 —	50						12		
13	π	79118	0		90 —	50		-50	65.8			13		
14	\odot	INT = 29+738	3523		90 03 20	90		-11.8	59.1			14		
15	\odot	=55+1096	✓		269 57 20	90		-90				15		
16												16		
17												17		

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

HORIZONTAL AND VERTICAL SURVEY NOTES

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GSI AREA BARROW STATE/COUNTY ALASKA BOOK NO. 2 PAGE 334 OF
 LINE/LOOP NO. 663 TYPE SURVEY CLIENT HUSKY NVA DATE 13 BY 3 MO 79 YR
 SURVEYOR T. SHERRILL 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			L/R OR DI	RIGHT TURNED HORIZONTAL ANGLE
				SLOPE					HORIZ	INST			
1												1	
2		WT 663/206	4542		89 58 00	9.0		+5.5	64.6			2	
3		= 29 + 738	✓		270 02 40	9.0						3	
4		S.P. 30	7960		89 57 10	9.0		-5.4	59.2			4	
5		31	2640		89 58 40	9.0		-7.8	56.8			5	
6		32	1320		89 56 40	9.0		-7.7	56.9			6	
7		33	0		90 —	5.0		-5.0	59.6			7	
8		34	1320		89 46 00	9.0		-3.6	61.0			8	
9		35	2640		89 54 50	9.0		-4.9	59.7			9	
10		36	3960		89 55 50	9.0		-3.5	61.1			10	
11			✓		270 04 50	9.0						11	
12												12	
13		36	2640		90 04 10	9.0		+12.0	73.2			13	
14			✓		269 56 00	9.0						14	
15		37	1320		90 08 00	9.0		-12.0	61.2			15	
16		38	0		90 —	5.0		-5.0	68.2			16	
17		39	1320		90 08 20	4.0		-7.2	66.0			17	

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HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA BARROW STATE/COUNTY ALASKA BOOK NO. 2 PAGE 335 OF
 LINE/LOOP NO. 663 TYPE SURVEY CLIENT HUSKY HPL DATE 13 DY 3 MO 29 YR
 SURVEYOR T. SKERRELL INSTRUMENT DESC/SERIAL NO. CREW NO. 1182

LINE	 SS	STATION	VERTICAL						ELEVATION		HORIZONTAL		REMARKS	
			DISTANCE	<input checked="" type="checkbox"/> FEET <input type="checkbox"/> METERS	VERTICAL ANGLE OBS.	ROD RDG OR HI	ELEV DIFF	FINAL ELEVATION DIFF	INST	ROD	L/R OR DJ	RIGHT TURNED HORIZONTAL ANGLE		LINE
				SLOPE										
1									73.2				1	
2		S.R. 40	2640		90 00 30	9.0		-9.2		64.0			2	
3		41	3960		90 02 30	9.0		-11.4		61.8			3	
4			✓		267 57 50	9.0							4	
5													5	
6		41	3766		90 00 00	9.0		+8.3	70.1				6	
7			✓		270 00 40	9.0							7	
8		42	2446		90 01 10	9.0		-9.7		60.4			8	
9		43	1126		90 03 30	9.0		-10.1		60.0			9	
10		43 +1126	0		20 —	5.0		-5.0		65.1	=KUGLUA WELL	SEE 8 T 10 N R 26 W	10	
11		44	194		89 56 20	9.0		-8.8		61.3			11	
12		45	1514		89 53 40	9.0		-6.2		63.9			12	
13		46	2834		89 57 20	9.0		-6.6		63.5			13	
14		47	4154		89 59 00	9.0		-7.1		63.0			14	
15			✓		270 01 30	9.0							15	
16													16	
17													17	

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HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA BARROW STATE/COUNTY ALASKA BOOK NO. 2 PAGE 336 OF
 LINE/LOOP NO. 663 TYPE SURVEY CLIENT HUSKY AIR DATE 13 DY 3 MO 79 YR
 SURVEYOR T. STEWELL INSTRUMENT DESC/SERIAL NO. CREW NO. 1182

LINE		STATION	VERTICAL						ELEVATION		L/R OR DJ	HORIZONTAL		REMARKS	
			DISTANCE	<input checked="" 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	HORIZ										
1													1		
2	A	SP 47	3960			90 07 30	9.0	+17.0	80.1					2	
3	B		✓			269 53 00	9.0							3	
4		48	2640			90 39 50	9.0	-39.5		40.6				4	
5		49	1320			90 20 40	9.0	-16.9		63.2				5	
6	π	50	0			90 —	5.0	-5.0		75.1				6	
7		51	1320			89 47 50	9.0	-4.3		75.8				7	
8		52	2640			89 55 00	9.0	-5.0		75.1				8	
9	o	53	3960			90 02 30	9.0	-11.3		68.8				9	
10	o		✓			269 58 00	9.0							10	
11														11	
12	A	53	3135			90 01 40	9.0	+10.2	79.0					12	
13	A		✓			269 58 30	9.0							13	
14		54	1815			89 50 20	9.0	-3.8		75.2				14	
15		55	495			89 26 00	9.0	-4.1		74.9				15	
16	π	55 + 495	0			90 —	5.0	-5.0		74.0				16	
17		56	815											17	

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HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA BARLOW STATE/COUNTY ALASKA BOOK NO. 2 PAGE 337 OF
 LINE/LOOP NO. 663 TYPE SURVEY CLIENT HUSKY NAR DATE 13 DY 3 MO 79 YR
 SURVEYOR T. SHERILL INSTRUMENT DESC/SERIAL NO. CREW NO. 1182

LINE	 	STATION	VERTICAL						ELEVATION		L/R OR DI	RIGHT TURNED HORIZONTAL ANGLE	LINE	REMARKS
			DISTANCE	<input checked="" type="checkbox"/> FEET <input type="checkbox"/> METERS	VERTICAL ANGLE OBS.	ROD RDG OR HI	ELEV DIFF	FINAL ELEVATION DIFF	INST	ROD				
			SLOPE	HORIZ										
1									79.0				1	
2		INT 663/608	357		90 32 10	9.0	-12.3		66.7				2	
3		S.P. 68 - 608	507		90 21 10	9.0	-12.1		66.8				3	
4		S.P. 56	825		90 19 40	9.0	-13.7		65.3				4	
5		57	2145		90 07 30	9.0	-13.6		65.4				5	
6		58	3465		90 04 50	9.0?	-13.5		65.5				6	
7			✓		269 55 20	9.0?							7	
8													8	
9		58	380		89 55 50	9.0?	+3.6	69.1					9	
10			✓		270 04 40	9.0							10	
11		59	2640		89 53 00	9.0	-3.5		65.6				11	
12		60	1320		89 50 10	9.0	-5.2		63.9				12	
13		61	0		90 —	5.0	-5.0		64.1				13	
14		62	1320		89 50 40	9.0	-5.4		63.7				14	
15		62 + 825	2145		89 32 50	9.0?	+8.1		77.2				15	
16			✓		270 27 20	9.0							16	
17													17	

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HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA BARROW STATE/COUNTY ALASKA BOOK NO. 2 PAGE 338 OF
 LINE/LOOP NO. 663 TYPE SURVEY CLIENT HUSKY N/A DATE 13 DY 3 MO 79 YR
 SURVEYOR T. SHENKILL INSTRUMENT DESC/SERIAL NO. CREW NO. 1182

LINE	 	STATION	VERTICAL						ELEVATION		L/R OR DI	RIGHT TURNED HORIZONTAL ANGLE	LINE	REMARKS
			DISTANCE	<input checked="" type="checkbox"/> FEET <input type="checkbox"/> METERS	VERTICAL ANGLE OBS.	ROD RDG OR HI	ELEV DIFF	FINAL ELEVATION DIFF	INST	ROD				
			SLOPE	HORIZ										
1														
2		62 + 825	4455		89 48 00	9.0		-7.2	70.1					2
3			✓		270 12 20	9.0								3
4		63	3960		89 54 10	9.0		-2.0		68.1				4
5		64	2640		89 56 00	9.0		-5.8		64.3				5
6		65	1320		90 —	5.0		-5.0		65.1				6
7		66	0		90 —	5.0		-5.0		65.1				7
8		67	1320		90 —	5.0		-5.0		65.1				8
9		68	2640		90 —	5.1		-5.0		65.1				9
10		69	3960		90 —	5.2		-4.9		65.2				10
11		69 + 495	4455		89 57 50	9.0		-5.6		64.5				11
12			✓		270 02 30	9.0								12
13														13
14		69 + 495	4785		89 58 50	9.0		+6.7	71.2					14
15			✓		270 01 30	9.0								15
16		70	3960		89 59 00	9.0		-7.5		63.7				16
17		71	2640		89 58 10	9.0		-7.5		63.7				17

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HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA BARROW STATE/COUNTY ALASKA BOOK NO. 2 PAGE 340 OF
 LINE/LOOP NO. 663 TYPE SURVEY CLIENT HUSKY NPA DATE 13 DY 3 MO 79 YR
 SURVEYOR T. SHERKILL INSTRUMENT DESC/SERIAL NO. CREW NO. 1182

LINE	 	STATION	VERTICAL					ELEVATION		L/R OR D/I	RIGHT TURNED HORIZONTAL ANGLE	LINE	REMARKS	
			*DISTANCE	<input checked="" type="checkbox"/> FEET <input type="checkbox"/> METERS	VERTICAL ANGLE OBS.	ROD RDG OR HI	ELEV DIFF	FINAL ELEVATION DIFF	INST					ROD
			SLOPE 	HORIZ 										
1														
2	D	INT 663/D22N	5901			89 58 20	9.0		+5.1	68.1				
3	Δ	=S.P. 64+621/D22N	✓			270 02 00	9.0							
4	π	S.P. 60	0			90 —	5.0		-5.0	63.1				
5	⊙	79104	3310			89 41 00	9.0		+9.7	77.8		79104-BARR		
6	⊙	=57+650	✓			270 19 20	9.0			77.6		79104-1182		
7										<u>±0.2</u>		MISTIE		
8										63.0		REF L-17	P-339	
9	D	INT 663/D22N	5133			90 10 20	9.0		+29.6	86.6				
10	Δ	=81+147	✓			262 50 00	9.0							
11		82	3960			90 13 20	4.0		-19.0	67.6				
12		83	2640			90 19 00	4.0		-18.5	68.2				
13		T.S. 1	1320			90 32 50	4.0		-16.6	70.1				
14	π	T.S. 2	0			90 —	5.0		-5.0	81.6				
15		3	1320			90 31 00	4.0		-15.9	70.8				
16		4	2640			90 17 40	4.0		-17.4	69.2				
17		5	3960			90 12 50	4.0		-18.5	68.2				
6			5280			90 11 30	4.0		-21.1	65.6				

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