

HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA BARROW STATE/COUNTY ALASKA BOOK NO. 2 PAGE 273 OF
 LINE/LOOP NO. 604 TYPE SURVEY CLIENT HUSKEY APR DATE 27 DY 2 MO 79 YR
 SURVEYOR T. SWANICK INSTRUMENT DESC/SERIAL NO. CREW NO. 1182

LINE	 	STATION	VERTICAL						ELEVATION		LR OR DR	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														
2		79133	3600		90	4.77	+4.2	123.0	118.60		79133	1		
3			✓		270	4.3						2		
4		LAKE	4100		89° 58' 00"	15.0	-12.3		110.7			3		
5					TAIL SPREAD 1-6 ON LAKE							4	LAKE	
6												5		
7		S.P. 1	3960		89 49 20	9.0	+3.6	1	126.6			6		
8		2	2640		89 54 40	9.0	-4.8		118.2			7		
9		3	1320		89 53 10	9.0	-6.3		116.7			8		
10		4	0		90	5.0	-5.0		118.0			9		
11		5	1320		90 00 10	9.0	-9.0		114.0			10		
12		6	2640		90 02 10	9.0	-10.5		112.5			11		
13		7	3960		90 01 40	9.0	-10.7		112.3			12		
14			✓		269 58 10	9.0						13		
15												14		
16		7	3960		89 57 10	9.0	+5.4	117.9				15		
17			✓		270 02 50	9.0						16		

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

HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA BARLOW STATE/COUNTY ALASKA BOOK NO. _____ PAGE 274 OF _____
 LINE/LOOP NO. 604 TYPE SURVEY _____ CLIENT HUSKY MR DATE 27 DY 2 MO 79 YR
 SURVEYOR T. SHERILL 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		LINE
			SLOPE 	HORIZ 										
1									117.9			1		
2		SPB	2640			89 55 20	9.0		-5.3		112.6		2	
3		9	1320			89 50 40	9.0		-5.4		112.5		3	
4		10	0			90 —	5.0		-5.0		112.9		4	
5		11	1320			89 51 20	9.0		-5.6		112.3		5	
6		12	2640			89 53 00	9.0		-3.5		114.4		6	
7		13	3960			89 46 50	9.0		+6.5		124.4		7	
8			✓			270 13 10	9.0						8	
9													9	
10		13	3960			89 47 40	9.0		-5.7	118.8			10	
11			✓			270 12 40	9.0						11	
12		14	2640			89 39 00	9.0		+7.3		126.1		12	
13		15	1320			89 45 20	9.0		-3.3		115.5		13	
14		16	0			90 —	5.0		-5.0		113.8		14	
15		17	1320			89 55 00	9.0		-7.0		111.8		15	
16		18	2640			89 57 30	9.0		-6.9		111.9		16	
17													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. _____ PAGE 275 OF _____
 LINE/LOOP NO. 604 TYPE SURVEY _____ CLIENT HUSKY APP DATE 27 DY 2 MO 79 YR
 SURVEYOR T. SHELLIN INSTRUMENT DESC/SERIAL NO. _____ CREW NO. 1182

LINE		STATION	VERTICAL						ELEVATION		L/R OR DJ	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		S.P. 19	3960		89 57 40	9.0		-5.8		118.8				2
3			✓		270 02 40	9.0								3
4														4
5		19	4125		90 05 30	9.0		+15.1		128.2				5
6			✓		269 54 50	9.0								6
7		20	2805		90 08 00	9.0		-15.4		112.8				7
8		21	1485		90 11 40	9.0		-14.0		114.2				8
9		22	165		89 41 50	9.0		-8.1		120.1				9
10		22 + 165	0		90 —	5.0		-5.0		123.2				10
11		79132	2400		90 —	8.1		-7.8		120.41		79132 - BALR		11
12			✓		270 —	7.7				119.8		79132 - 1182		12
13														13
14										± 0.6		MISTIE		14
15														15
16														16
17														17

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SYMBOLS

 = BACKSIGHT

 = INSTRUMENT SET-UP

SS = SIDESHOT

 = FORESIGHT

HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA BALLOW STATE/COUNTY ALASKA BOOK NO. 2 PAGE 276 OF
 LINE/LOOP NO. 604 TYPE SURVEY CLIENT HUSKY NLR DATE 27 DY 2 MO 79 YR
 SURVEYOR T. SHERRILL 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									120.4		79132	1		
2	Δ	79132	2460		90 —	81.7		+7.8	128.5			2		
3	Δ		✓		270 —	7.7						3		
4	π	22+165	0		90 —	5.0		-5.0		123.5		4		
5		23	1155		90 08 30	9.0		-11.8		116.7		5		
6		24	2475		90 03 40	9.0		-11.5		117.0		6		
7	\odot	25	3795		90 01 30	9.0		-10.2		118.3		7		
8	\odot		✓		269 58 50	9.0						8		
9												9		
10	Δ	25	3960		89 55 00	9.0		+2.7	121.4			10		
11	Δ		✓		270 05 20	9.0						11		
12		26	2640		89 49 00	9.0		-0.4		121.0		12		
13		27	1320		89 46 10	9.0		-3.7		117.7		13		
14	π	28	0		90 —	5.0		-5.0		116.4		14		
15		29	1320		90 11 50	9.0		-13.5		107.9		15		
16		30	2640		90 18 00	9.0		-22.7		98.7		16		
17												17		

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

HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA BALLOU STATE/COUNTY ALASKA BOOK NO. 2 PAGE 277 OF
 LINE/LOOP NO. 604 TYPE SURVEY CLIENT HUSKEY APR DATE 27 DY 2 MO 79 YR
 SURVEYOR T. SHERWIN INSTRUMENT DESC/SERIAL NO. CREW NO. 1182

LINE		STATION	VERTICAL						ELEVATION		L/R OR DJ	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									121.4				1	
2	⊙	S.P. 31	3960		90 17 40	9.0		-28.8		92.6			2	
3	⊙		✓		269 42 40	9.0							3	
4													4	
5	Δ	31	3960		89 42 30	9.0		-11.7	81.3				5	
6	Δ		✓		270 17 50	9.0							6	
7		32	2640		89 52 10	9.0		-2.8		78.5			7	
8		33	1320		89 44 50	9.0		-3.1		78.2			8	
9	⊕	34	0		90 ———	5.0		-5.0		76.3			9	
10		35	1320		89 58 30	9.0		-8.4		72.9			10	
11		36	2640		89 57 50	9.0		-7.2		74.1			11	
12	⊙	37	3960		90 00 00	9.0		-8.5		72.8			12	
13	⊙		✓		270 00 20	9.0							13	
14													14	
15	Δ	37	3960		89 56 00	9.0		+4.0	76.9				15	
16	Δ		✓		270 04 10	9.0							16	
17		38	2640		89 55 50	9.0		-5.7		71.2			17	

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HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA BARROW STATE/COUNTY ALASKA BOOK NO. 2 PAGE 278 OF
 LINE/LOOP NO. 604 TYPE SURVEY CLIENT HAUSLEY NLR DATE 27 DY 2 MO 79 YR
 SURVEYOR T. STERRILL 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		S.P. 39	1320		89 51 30	9.0		-5.7		76.9				
3		40	0		90 —	5.0		-5.0		71.2				
4		79131	2170		89 41 30	9.0		+2.9		71.9				(79.99)
5			✓		270 18 50	9.0				79.8				79131-1182
6										78.6				MISTAKE
7										±1.2				
8										79.8				
9										79.8				79131
10		79131	2170		89 41 30	9.0		-2.9		76.7				
11			✓		270 18 50	9.0								
12		40	0		90 —	5.0		-5.0		71.7				
13		147	1320		89 34 00	9.0		+1.0		77.7				
14		42	2640		89 42 30	9.0		+4.6		81.3				
15		43	3960		89 50 50	9.0		+1.2		77.9				
16			✓		270 09 20	9.0								
17														

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HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA Barrow STATE/COUNTY ALASKA BOOK NO. 2 PAGE 279 OF
 LINE/LOOP NO. 604 TYPE SURVEY CLIENT MUSKY NR DATE 28 DY 2 MO 79 YR
 SURVEYOR T. SHAWL INSTRUMENT DESC/SERIAL NO. CREW NO. 1182

LINE	 	STATION	VERTICAL							HORIZONTAL		REMARKS	
			DISTANCE	<input checked="" type="checkbox"/> FEET <input type="checkbox"/> METERS	VERTICAL ANGLE OBS.	ROD RDG OR HI	ELEV DIFF	ELEVATION		UR OR DI	RIGHT TURNED HORIZONTAL ANGLE		LINE
				SLOPE				HORIZ	INST				
1												1	
2		43	3960			89° 52' 05" 9.0	-0.1	77.7				2	
3			✓			270° 07' 15" 9.0						3	
4		44	2640			89° 53' 15" 9.0	0.0	77.7				4	
5		45	1320			89° 38' 40" 9.0	-0.8	76.9				5	
6		46	0			✓ 5.0	-5.0	72.7				6	
7		47	1320			89° 54' 20" 9.0	-6.8	70.9				7	
8		48	2640			89° 58' 20" 9.0	-7.6	70.1				8	
9		49	3960			90° 01' 10" 9.0	-10.2	67.5				9	
10			✓			269° 58' 30" 9.0						10	
11												11	
12			2640			90° 02' 35" 9.0	+10.8	78.0				12	
13			✓			269° 57' 25" 9.0						13	
14		50	1320			89° 51' 50" 9.0	-5.8	72.2				14	
15		51	0			✓ 5.0	-5.0	73.0				15	
16		52	1320			90° 10' 50" 9.0	-13.1	64.9				16	
17		53	2640			90° 04' 55" 9.0	-12.6	65.4				17	







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HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA Barrow STATE/COUNTY ALASKA BOOK NO. 2 PAGE 280 OF
 LINE/LOOP NO. 604 TYPE SURVEY CLIENT MURPHY NAR DATE 28 DY 2 MO 79 YR
 SURVEYOR T. SKERRELL INSTRUMENT DESC/SERIAL NO. CREW NO. 1182

LINE		STATION	VERTICAL						ELEVATION		L/R OR D/I	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															
2	o	54	3960		90° 09' 55" 9.0		-20.1		57.9						
3	o		✓		269° 50' 00" 9.0										
4															
5	Δ		3960		90° 05' 10" 9.0		+14.6		72.3						
6	Δ		✓		269° 54' 50" 9.0										
7		55	2640		90° 18' 20" 9.0		-22.9		49.4						
8		56	1320		89° 57' 00" 9.0		-7.8		64.5						
9	⊕	57	0		✓ 5.0		-5.0		67.3						
10		58	1320		90° 13' 30" 9.0		-14.1		52.8						
11		59	2640		90° 24' 40" 9.0		-27.8		44.5						
12		60	3960		90° 28' 40" 9.0		-41.7		30.6						
13	o	60+814	4774		90° 00' 10" 9.0		-8.8		63.5			(63.45)		TRM 79130	
14	o		✓		269° 59' 45" 9.0										
15									-0.9			Mistic RAW			
16															
17															

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SYMBOLS

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HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA BALDOW STATE/COUNTY ALASKA BOOK NO. 5 PAGE 281 OF
 LINE/LOOP NO. 604 TYPE SURVEY CLIENT HUSKY AIR DATE 28 BY 2 MO 79 YR
 SURVEYOR T. SHERMAN INSTRUMENT DESC/SERIAL NO. CREW NO. 1182

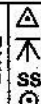





LINE		STATION	VERTICAL						ELEVATION		L/R OR D/F	HORIZONTAL		REMARKS
			DISTANCE	<input type="checkbox"/> FEET <input type="checkbox"/> METERS	VERTICAL ANGLE OBS.	ROD RDG OR HI	ELEV DIFF	FINAL ELEVATION DIFF	INST	ROD		RIGHT TURNED HORIZONTAL ANGLE	LINE	
1									68.5			1		
2	Δ	60+814	4466		89° 58' 50"	9.0	+7.0	70.7				2	TBM 79130	
3	Δ		✓		270° 01' 20"	9.0						3		
4		61	3960		89° 56' 05"	9.0	-4.2		66.5			4		
5		62	2640		89° 53' 53"	9.0	-4.2		66.5			5		
6		63	1320		89° 50' 00"	9.0	-5.1		65.6			6		
7	π	64	0		✓	5.0	-5.0		65.7			7		
8		65	1320		89° 47' 40"	9.0	-4.2		66.5			8		
9		66	2640		89° 54' 45"	9.0	-4.8		65.9			9		
10	o	67	3960		89° 54' 10"	9.0	-2.0		68.7			10		
11	o		✓		270° 05' 50"	9.0						11		
12												12		
13	Δ		3960		89° 54' 50"	9.0	+2.7	71.6				13		
14	Δ				270° 05' 15"	9.0						14		
15		68	2640		89° 56' 10"	9.0	-5.9		65.7			15		
16		69	1320		89° 52' 15"	9.0	-6.0		65.6			16		
17	π	70	0		✓	5.0	-5.0		66.6			17		

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HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA Barrow STATE/COUNTY ALASKA BOOK NO. 2 PAGE 282 OF
 LINE/LOOP NO. 604 TYPE SURVEY CLIENT Husky APR DATE 28 DY 2 MO 79 YR
 SURVEYOR T. SHEDDEN INSTRUMENT DESC/SERIAL NO. CREW NO. 1182

LINE		STATION	VERTICAL						ELEVATION		LIR 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 	HORIZ 											
1													1		
2		71	1320			89° 53' 30	9.0		-6.5		65.1			2	
3		72	2640			89° 53' 20	9.0		-3.7		67.9			3	
4	o	73	3960			89° 57' 35	9.0		-5.7		65.9			4	
5	o		✓			278° 02' 40	9.0							5	
6														6	
7	Δ		3960			89° 49' 00	9.0		-4.1		62.0			7	
8	Δ		✓			270° 11' 10	9.0							8	
9		74	2640			89° 48' 30	9.0		-0.0		62.0			9	
10		75	1320			89° 59' 20	9.0		-8.7		53.3			10	
11	⊥	76	0			✓	5.0		-5.0		57.0			11	
12		77	1320			89° 42' 20	9.0		-2.2		59.8			12	
13		78	2640			89° 55' 05	9.0		-5.1		56.9			13	
14	o	78+118.5	3825			89° 56' 55	15.0		-11.3		50.7	(50.6)		14	TBM-79129
15	o					270° 03' 00	15.0							15	
16											+0.7 Mistie Raw			16	
17														17	

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HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA BARROW STATE/COUNTY ALASKA BOOK NO. 2 PAGE 283 OF
 LINE/LOOP NO. 604 TYPE SURVEY CLIENT Husky NPK DATE 28 BY 2 MO 79 YR
 SURVEYOR T. SHERRILL INSTRUMENT DESC/SERIAL NO. CREW NO. 1182

LINE	 	STATION	VERTICAL						ELEVATION		L/R OR D/I	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											HORIZ
1															
2		78+1185	2775		89°34'10"	9.0	-12.8	37.9		50.7					TBM 79129
3			✓		270°26'00"	9.0									
4		79	2640		89°34'00"	9.0	+11.1			49.0					
5		80	1320		89°48'30"	9.0	-4.5			33.4					
6		81	130		✓	5.0	-5.0			32.9					
7		82	1320		90°36'50"	9.0	-20.8			17.1					DRILL HOLE OFF SET
8		83	2640		89°29'50"	9.0	+14.3			52.2					
9		84	3960		89°32'20"	9.0	+23.3			61.9					
10			✓		270°27'50"	9.0									
11															
12			3960		89°56'40"	9.0	+4.6	66.4							
13			✓		270°03'45"	9.0									
14		85	2640		89°54'40"	9.0	-4.8			61.6					
15		86	1320		89°45'55"	9.0	-3.6			62.8					
16		87	0		✓	5.0	-5.0			61.4					
17		88	1320		90°39'20"	9.0	-24.1			42.3					

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. 2 PAGE 284 OF
 LINE/LOOP NO. 604 TYPE SURVEY CLIENT HUSKY-NPR DATE 28 BY 2 MO 72 YR
 SURVEYOR R. Ippisch INSTRUMENT DESC/SERIAL NO. CREW NO. 1182

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		L/R OR DI		RIGHT TURNED HORIZONTAL ANGLE	LINE
				SLOPE					HORIZ	INST				
1												1		
2		89	2640		90° 32' 30	9.0		-33.8		32.6			2	
3	o	90	3960		90° 20' 50	9.0		-32.5		33.9			3	
4	o		✓		269° 39' 30	9.0							4	
5													5	
6	Δ		3960		89° 55' 35	9.0		+3.5		37.4			6	
7	Δ		✓		270° 04' 35	9.0							7	
8		91	2640		89° 54' 20	9.0		-4.5		32.9			8	
9		92	1320		89° 50' 50	9.0		-5.4		32.0			9	
10	⊗	93	0		✓	5.0		-5.0		32.4			10	
11		94	1320		89° 23' 40	9.0		+5.0		42.4			11	
12		95	2640		89° 25' 35	9.0		+17.6		55.0			12	
13	o	96	3960		89° 31' 30	15.0		+18.3		55.7			13	
14	o		✓		270° 28' 50	15.0							14	
15													15	
16													16	
17													17	

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

HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA BARROW STATE/COUNTY ALASKA BOOK NO. 2 PAGE 285 OF
 LINE/LOOP NO. 604 TYPE SURVEY CLIENT Husky NRR DATE 1 DY 3 MO 79 YR
 SURVEYOR R Ippisch 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	ROD					
1													1	
2		96	3923		89° 51' 30"	15.0		+5.2	60.9				2	
3			✓		278° 08' 05"	15.0							3	
4		97	2603		89° 49' 40"	9.0		-1.0	59.9				4	
5		98	1283		89° 51' 50"	9.0		-5.9	55.0				5	
6		98+1283	0		✓	5.0		-5.0	55.9				6	=TBM 79128
7		98+1283	0		✓	5.0		-5.0	55.9		(55.92)		7	=TBM 79128
8			0		✓	5.0							8	
9									-0.2	MISTIE RAW			9	
10													10	
11													11	
12													12	
13													13	
14													14	
15													15	
16													16	
17													17	

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HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA BARROW STATE/COUNTY ALASKA BOOK NO. 2 PAGE 286 OF
 LINE/LOOP NO. 604 TYPE SURVEY CLIENT HEUSKY NPR DATE 1 DY 3 MO 79 YR
 SURVEYOR R Ippisch 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		UR OR DI RIGHT TURNED HORIZONTAL ANGLE		LINE
			SLOPE	HORIZ			INST	ROD					
1									55.9			1	
2		98+1283	0		✓	5.0	+5.0	60.9				2	=TBM 79128
3			0		✓	5.0						3	
4		98+1283	0		✓	5.0	-5.0		55.9			4	=TBM 79128
5		99	37		✓	5.5	-5.5		55.4			5	
6		100	135.7			15.0	-19.9	✓	41.0			6	
7		101	267.7			9.0	-13.3		47.6			7	
8		102	399.7			9.0	-3.0		58.0			8	
9			✓			9.0						9	
10												10	
11			247.5			9.0	+7.8	65.9				11	
12			✓			9.0						12	
13		103	215.5			9.0	-2.7		63.2			13	
14		103+1155	0		✓	5.0	-5.0		60.9			14	
15		104	16.5			9.0	-9.2		56.7			15	
16		105	148.5			9.0	-13.1		52.8			16	
17		106	280.5			9.0	-9.8		56.1			17	

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  = BACKSIGHT
  = INSTRUMENT SET-UP
  = SIDESHOT
  = FORESIGHT

HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA BARROW STATE/COUNTY ALASKA BOOK NO. 2 PAGE 287 OF
 LINE/LOOP NO. 604 TYPE SURVEY CLIENT Husky NPR DATE 1 DY 3 MO 79 YR
 SURVEYOR R Ippisch INSTRUMENT DESC/SERIAL NO. CREW NO. 1182

LINE	<input type="checkbox"/> Δ <input type="checkbox"/> T <input type="checkbox"/> SS <input type="checkbox"/> ○	STATION	VERTICAL						ELEVATION		L/R OR DI	HORIZONTAL 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														
2	○	107	4125			90°00'15" 9.0			-8.6		57.3			2
3	○					270°00'20" 9.0								3
4														4
5	Δ		2640			89°36'30" 9.0			+9.5	47.8				5
6	Δ		✓			270°24'20" 9.0					51.9			6
7		108	1320			89°26'00" 9.0			+4.1		48.7			7
8	T	109	0			✓ 5.0			-5.0		42.8			8
9		110	1320			90°49'50" 9.0			-28.1		19.7			9
10		111	2640			89°52'50" 9.0			-3.4		44.4			10
11	○	112	3960			89°35'10" 9.0			+20.2		68.0			11
12	○		✓			270°25'20" 9.0								12
13														13
14	Δ		2640			90°08'50" 9.0			+15.4	83.5				14
15	Δ		✓			269°51'50" 9.0								15
16		113	1320			89°51'25" 9.0			-5.7		77.8			16
17	T	114	0			✓ 5.0			-5.0		78.5			17

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HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA BARROW STATE/COUNTY ALASKA BOOK NO. 2 PAGE 288 OF _____
 LINE/LOOP NO. 604 TYPE SURVEY _____ CLIENT HUSKY NPR DATE 1 DY 3 MO 79 YR
 SURVEYOR R IPPISCH 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		115	1320		90° 46' 35"	9.0	-26.9	56.6				2	
3		116	2640		90° 25' 10"	9.0	-28.2	55.3				3	
4	o	117	3960		90° 13' 30"	9.0	-23.8	59.7				4	
5	o		✓		269° 47' 15"	9.0						5	
6												6	
7	Δ		3960		90° 02' 50"	9.0	+11.6	71.3				7	
8	Δ		✓		269° 57' 50"	9.0						8	
9		118	2640		89° 56' 00"	9.0	-5.8	65.5				9	
10		119	1320		89° 50' 50"	9.0	-5.4	65.9				10	
11	⊗	120	0		✓	5.0	-5.0	66.3				11	
12		121	1320		89° 28' 30"	9.0	-1.1	70.2				12	
13		122	2640		89° 49' 55"	9.0	-1.1	70.2				13	
14	o	123	3960		89° 53' 00"	9.0	-0.3	71.0				14	
15	o		✓		270° 07' 30"	9.0						15	
16												16	
17												17	

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SYMBOLS

Δ = BACKSIGHT

⊗ = INSTRUMENT SET-UP

SS = SIDESHOT

o = FORESIGHT

HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA BARROW STATE/COUNTY ALASKA BOOK NO. 2 PAGE 289 OF
 LINE/LOOP NO. 604 TYPE SURVEY CLIENT HUSKY NPR DATE 1 DY 3 MO 79 YR
 SURVEYOR R Ippisch INSTRUMENT DESC/SERIAL NO. CREW NO. 1182






LINE	 	STATION	VERTICAL						ELEVATION		L/R OR D/I	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													1	
2		123	1320			90° 36' 05"	9.0		+20.8	91.8			2	
3			✓			269° 34' 30"	9.0						3	
4		124	0			✓	5.0		-5.0	86.8			4	
5		125	1320			90° 11' 30"	15.0		-19.4	72.4			5	
6		126	2640			90° 15' 30"	9.0		-20.8	71.0			6	
7		127	3960			90° 15' 55"	9.0		-26.6	65.2			7	
8			✓			269° 44' 45"	9.0						8	
9													9	
10			3135			89° 54' 05"	9.0		+3.1	68.4			10	
11			✓			270° 06' 35"	9.0						11	
12		128	1815			90° 06' 30"	9.0		-9.2	59.2			12	
13		129	495			89° 57' 20"	9.0		-8.6	59.8			13	
14		129+495	0			✓	5.0		-5.0	63.4			14	
15		130	825			91° 03' 05"	9.0		-24.1	44.3			15	
16		131	2145			90° 42' 00"	9.0		-35.1	33.3			16	
17													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 290 OF
 LINE/LOOP NO. 604 TYPE SURVEY CLIENT Husky NPR DATE 1 DY 3 MO 79 YR
 SURVEYOR R Ippisch INSTRUMENT DESC/SERIAL NO. CREW NO. 1182


LINE		STATION	VERTICAL						ELEVATION		L/R OR DJ	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												1		
2	o	132	3465			90°35'10"	9.0		-43.9		24.5		2	
3	o		✓			269°25'25"	9.0						3	
4													4	
5	Δ		3960			89°54'30"	9.0		+2.0	26.5			5	
6	Δ		✓			270°06'10"	9.0						6	
7		133	2640			89°52'00"	9.0		-2.7		23.8		7	
8		134	1320			89°47'05"	9.0		-4.0		22.5		8	
9	π	135	0			✓	5.0		-5.0		21.5		9	
10		136	1320			89°44'40"	9.0		-3.1		23.4		10	
11		137	2640			89°53'20"	9.0		-3.7		22.8		11	LAST S.P.
12	o	137+1116	3756			89°57'40"	9.0		-5.7		20.8	(2080)	12	= TRM 79126
13	o		✓			270°03'10"	9.0						13	
14											+0.5 Mistk RAW		14	
15													15	
16													16	
17													17	

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

HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA BARROW STATE/COUNTY ALASKA BOOK NO. 2 PAGE 291 OF _____
 LINE/LOOP NO. 604 TYPE SURVEY _____ CLIENT HUCKY ON NLR DATE 1 DY 3 MO 72 YR
 SURVEYOR R Ippisch INSTRUMENT DESC/SERIAL NO. _____ CREW NO. 1182

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		L/R OR D/I		RIGHT TURNED HORIZONTAL ANGLE									
			SLOPE	HORIZ				INST	ROD													
1																						
2	△	137+1116	5484		89° 45' 25"	9.0		-15.3	5.5		20.8											
3	△		✓		270° 15' 00"	9.0																
4		TS 1	5280		89° 56' 40"	9.0		-3.3			2.2											
5		TS 2	3960		89° 56' 40"	9.0		-4.8			+0.7											
6		TS 3	2640		89° 56' 20"	9.0		-6.4			-0.5											
7		TS 4	1320		89° 51' 30"	9.0		-5.7			-0.2											
8	⊕	TS 5	0		✓	5.0		-5.0			+0.5											
9		TS 6	1320		89° 50' 00"	9.0		-5.1			0.4											
10																						
11																						
12																						
13																						
14																						
15																						
16																						
17																						

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