

HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA UTUKOK RIVER STATE/COUNTY ALASKA BOOK NO. 1 PAGE 144 OF
 LINE/LOOP NO. RS XN TYPE SURVEY CLIENT DATE 16 BY 2 MO 79 YR
 SURVEYOR L. LYMAN INSTRUMENT DESC/SERIAL NO. WILD T₂ 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
				SLOPE					HORIZ	INST			
1	○	BM. 79251							350.8			1	(360.7) ✓
2		352										2	
3	Δ		1430		-	10.0	+ 10.0	360.8				3	
4		351	550		-	10.4			350.4	S		4	
5		-	0		-	5.2			355.6	-		5	
6		350	330		-	13.8			347.0	N		6	EAST SP. NORTH.
7												7	
8	○	# 12 T.S.	2860		-	12.3	- 12.3		348.5			8	
9	Δ		880		-	5.2	+ 5.2	353.7		S		9	
10		# 12 T.S.	0		-	5.2			348.5	-		10	
11		# 24 T.S.	1760		90-15	4.0	- 11.7		342.0	N		11	
12		# 35 T.S.	4180		90-09-10	8.0	- 19.1		334.6			12	
13												13	
14												14	
15												15	
16												16	
17												17	

WORKED BY L.G.L. CHECKED BY 1ST 2ND
SYMBOLS Δ = BACKSIGHT Δ = INSTRUMENT SET-UP SS = SIDESHOT ○ = FORESIGHT

HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA _____ STATE/COUNTY AK. BOOK NO. 1 PAGE 160 OF _____
 LINE/LOOP NO. P. 5 X N. TYPE SURVEY _____ CLIENT _____ DATE 18 . DY 2 . MO 79 . YR
 SURVEYOR L. LYMAN. INSTRUMENT DESC/SERIAL NO. WILD T₂ CREW NO. 1186

LINE	 	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 DR	RIGHT TURNED HORIZONTAL ANGLE
				SLOPE					HORIZ	INST				
1		B.M. 78341							759.7			1	OLD SP. 506 - 416	
2												2	IRON - PIPE.	
3												3	LINE: RS. B.M. 78341.	
4			95		-	5.3	+ 5.3	765.0				4		
5		492	0		-	5.2			759.8			5	LAST SP.	
6												6	SOUTH-END.	
7		# 12 T.S.	2530	91-26-17	91-26-17	4.0	- 67.5		697.5			7		
8												8		
9		# 24 T.S.	5170		89-50-50	4.0	+ 9.8		774.8			9		
10												10		
11												11		
12												12		
13												13		
14												14		
15												15		
16												16		
17												17		

TI-23471B

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

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

HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA _____ STATE/COUNTY ALASKA BOOK NO. 1 PAGE 146 OF _____
 LINE/LOOP NO. R5 XN TYPE SURVEY _____ CLIENT _____ DATE 16 DY 2 MO 77 YR
 SURVEYOR L. LYMAN INSTRUMENT DESC/SERIAL NO. _____ CREW NO. 1186

LINE	<input type="checkbox"/> Δ <input type="checkbox"/> SS <input type="checkbox"/> C	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	⊙	BM-79252							370.1			1	
2												2	
3	Δ		1115		-	8.2	+ 8.2	378.3				3	
4		358	880		-	7.3			371.0	N		4	
5		359	0		-	5.2			373.1	-		5	
6		360	880		+ 1/2	4.5	+ 4.4	- 0.1	378.2	S		6	
7	⊙	361	1760		89-30	10.0	+ 5.4		383.7			7	
8	Δ		2310		-	12.9	+ 12.9	396.6				8	
9		362	1430		-	7.6			389.0			9	
10		363	550		-	3.9			392.7	N		10	
11	π	-	0		-	5.2			391.4	-		11	
12		364	330		-	9.0			397.6	S		12	
13		365	1210		91-00	8.5	- 29.6		367.0			13	
14		366	2090		91-00	8.6	- 45.1		351.5			14	
15		367	2970		90-20	6.5	- 23.8		372.8			15	
16	⊙	368	3850		89-40	7.2	+ 15.2		411.8			16	
17	LK		✓		270-26.08	14.0	+ 15.3		411.9			17	

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HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA _____ STATE/COUNTY ALASKA BOOK NO. 1 PAGE 147 OF _____
 LINE/LOOP NO. R5 XN TYPE SURVEY _____ CLIENT _____ DATE 16 BY 2 MO 77 YR
 SURVEYOR L. LTMAN INSTRUMENT DESC/SERIAL NO. WILD T2 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
				SLOPE					HORIZ	INST			
1	○	368							411.8			1	
2	Δ		2640		90-40	12.0	+ 42.7	454.5				2	
3		369	1760		91- 00	6.7	- 39.4		415.1			3	
4		370	880		91-30	10.6	- 33.6		420.9	N.		4	
5		371	10		-	5.2			449.3	-		5	
6	○	372	880		88-40	6.6	+ 13.9		468.4	S		6 TP	
7	Δ		2140		-	10.7	+ 10.7	479.1		N.		7	
8		373	1760		-	8.7			470.4	N.		8	
9	○	BM. 79253	995		-	8.0	- 8.0		471.1	N.		9	
10									471.9			10 (471.97)	
11								VERTICAL TIE	+ 0.8			11	
12	Δ		995		-	8.0	+ 8.0	479.9				12	
13		374	880		-	7.7			472.2	N		13	
14		375	0		-	5.2			474.7	-		14	
15	○	376	880		-	3.7	- 3.7		476.2	S		15	
16												16	
17												17	

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

HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA _____ STATE/COUNTY ALASKA BOOK NO. 1 PAGE 148 OF _____
 LINE/LOOP NO. RS x N. TYPE SURVEY _____ CLIENT _____ DATE 17 BY 2 MO 77 YR
 SURVEYOR L LYMAN. INSTRUMENT DESC/SERIAL NO. _____ CREW NO. 1186









LINE	<input type="checkbox"/> Δ <input type="checkbox"/> ∇ <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		L/R OR D/I		RIGHT TURNED HORIZONTAL ANGLE
				SLOPE 					HORIZ 	INST			
1	\odot	376							476.2			1	
2	Δ		1760		89-00	12.4	-	18.3	457.9			2	
3		377	800		89-00	5.6	+	9.8		467.7	N	3	
4		378	0		-	5.2				452.7	-	4	
5		379	800		-	10.2				447.7	S.	5	
6		380	1760		-	5.3				452.6		6	
7	\odot		2310		-	10.2	-	10.2		447.7		7	
8	Δ		2090		88-20	8.8	-	52.0	395.7			8	
9		381	1760		88-20	7.0	+	44.2		439.9		9	
10		382	800		88-20	4.0	+	21.6		417.3	N	10	
11		383	0		-	5.2				390.5	-	11	
12		384	800		91-00	11.3	-	26.7		369.0	S.	12	
13		385	1760		91-00	10.4	-	41.1		354.6		13	
14	\odot	386	2640		90-40	10.8	-	41.5		354.2		14	
15												15	
16												16	
17												17	





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

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

HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA _____ STATE/COUNTY ALASKA BOOK NO. 1 PAGE 149 OF _____
 LINE/LOOP NO. R5 XN TYPE SURVEY _____ CLIENT _____ DATE 17 DY 2 MO 77 YR
 SURVEYOR L. LYMAN INSTRUMENT DESC/SERIAL NO. _____ 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			RIGHT TURNED HORIZONTAL ANGLE	LINE
				SLOPE					HORIZ	INST			
1		386.							354.2		1		
2			2640		4.7	+	4.7	358.9			2		
3		387.	1760		5.0				353.9		3		
4		388.	880		5.3				353.6	N	4	FLAT	
5		389.	0		5.2				353.7	-	5	FLAT -	
6		390.	880	+1/2	4.8	+	4.4	-0.4	358.5	S.	6		
7		391.	1760	+1/2	6.7	+	8.8	+2.1	361.0		7		
8		392.	2640	89-40	13.2	+	2.2		361.1		8		
9			2640		6.0	+	6.0	367.1			9		
10		393.	1760		6.5				360.6		10		
11		394.	880		5.5				361.6	N	11		
12		395.	0		5.3				361.8	-	12		
13		396.	880		5.8				363.3	S.	13		
14		397.	1760	+1/2	8.7	+	8.8	+0.1	367.2		14		
15		398.	2640	89-50	6.6	+	1.1		368.2		15		
16			1760		6.8	+	6.8	375.0			16		
17		399.	880		5.7				369.3		17		

WORKED BY L.J.C. CHECKED BY 1ST _____ 2ND _____
 SYMBOLS  = BACKSIGHT  = INSTRUMENT SET-UP  = SIDESHOT  = FORESIGHT

HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA _____ STATE/COUNTY AK BOOK NO. 1 PAGE 150 OF _____
 LINE/LOOP NO. R5XN TYPE SURVEY _____ CLIENT _____ DATE 17 DY 2 MO 79 YR
 SURVEYOR L. LYMAN INSTRUMENT DESC/SERIAL NO. _____ CREW NO. 1186

LINE	<input type="checkbox"/> Δ <input type="checkbox"/> ∇ <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			L/R OR DJI	RIGHT TURNED HORIZONTAL ANGLE
				SLOPE ∇					HORIZ ∇	INST			
1									375.0			1	
2		<u>400</u>	<u>0</u>		<u>5.2</u>					<u>369.8</u>		2	
3	\odot	<u>401</u>	<u>000</u>		<u>2.8</u>		<u>2.8</u>			<u>372.2</u>	<u>S.</u>	3	<u>FLAT</u>
4	Δ		<u>2140</u>		<u>8.7</u>	<u>+</u>	<u>8.7</u>	<u>380.9</u>				4	<u>MARSH</u>
5		<u>402</u>	<u>1760</u>		<u>6.3</u>					<u>374.6</u>		5	<u>PLAIN</u>
6		<u>403</u>	<u>1760</u>		<u>6.0</u>					<u>374.9</u>	<u>N</u>	6	
7		<u>404</u>	<u>0</u>		<u>5.2</u>					<u>375.7</u>	<u>-</u>	7	
8		<u>405</u>	<u>000</u>		<u>8.3</u>					<u>372.6</u>	<u>S.</u>	8	
9		<u>406</u>	<u>1760</u>		<u>3.6</u>					<u>377.3</u>		9	
10	\odot	<u>407</u>	<u>2140</u>		<u>3.5</u>	<u>-</u>	<u>3.5</u>			<u>377.4</u>		10	
11	Δ		<u>2140</u>		<u>7.3</u>	<u>+</u>	<u>7.3</u>	<u>384.7</u>				11	
12		<u>408</u>	<u>1760</u>		<u>3.7</u>					<u>381.0</u>		12	
13		<u>409</u>	<u>000</u>		<u>3.6</u>					<u>381.1</u>	<u>N</u>	13	
14		<u>410</u>	<u>0</u>		<u>5.2</u>					<u>379.5</u>	<u>-</u>	14	
15		<u>411</u>	<u>000</u>		<u>3.5</u>					<u>381.2</u>	<u>S.</u>	15	
16		<u>412</u>	<u>1760</u>	<u>+1/2</u>	<u>8.6</u>	<u>+</u>	<u>8.8</u>	<u>+0.2</u>		<u>384.9</u>		16	
17												17	

WORKED BY L.J.L. CHECKED BY 1ST _____ 2ND _____
 SYMBOLS Δ = BACKSIGHT ∇ = INSTRUMENT SET-UP SS = SIDESHOT \odot = FORESIGHT

HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA _____ STATE/COUNTY AK BOOK NO. 1 PAGE 151 OF _____
 LINE/LOOP NO. R5XN TYPE SURVEY _____ CLIENT _____ DATE 17 DY 2 MO 79 YR
 SURVEYOR L. LYMAN INSTRUMENT DESC/SERIAL NO. WILD. T2 CREW NO. 1186

LINE	<input type="checkbox"/> ∇ <input type="checkbox"/> ∇ <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			L/R OR DJI	RIGHT TURNED HORIZONTAL ANGLE
				SLOPE 					HORIZ 	INST			
1													
2		413.	2640		+1/2	10.8	+13.2	+2.4	384.7				
3		414	3520		89-40	11.4		+9.1					
4	\odot	BM. 79254	3068.		89-40	4.3		+18.2					
5	CK		✓		270-28-50	14.0		+18.4	8.3				(406.82)
6													
7								VERTICAL TIE	-1.8				
8													
9	∇		1412		90-30	12.8		+26.1	430.9				
10		415.	880		90-30	13.0		-20.7				N	
11		416.	0		-	5.2			425.7			-	
12		417.	880		89-00	2.8		+12.6				S.	
13		418.	1760		89-00	2.9		+27.8					
14	\odot	419.	2640		89-00	5.3		+40.8					
15													
16													
17													

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HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA _____ STATE/COUNTY AK BOOK NO. 1 PAGE 152 OF _____
 LINE/LOOP NO. R5 X N. TYPE SURVEY _____ CLIENT _____ DATE 17 BY 2 MO 79 YR _____
 SURVEYOR L. LYMAN. INSTRUMENT DESC/SERIAL NO. WILD T2 CREW NO. 1186

LINE	<input type="checkbox"/> Δ <input type="checkbox"/> T <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 D/I	RIGHT TURNED HORIZONTAL ANGLE
				SLOPE	HORIZ					INST	ROD			
1	<input type="checkbox"/> O	4719.							477.7			1		
2	<input type="checkbox"/> Δ		2640			90-50	11.1	+ 49.5	521.2			2		
3		4720.	1760			71-00	12.3	- 43.0		477.2		3		
4		4721.	880			91-00	13.1	- 28.5		492.7	N	4		
5		4722.	0			-	5.2			516.0	-	5		
6		4723.	880			88-30	9.3	+ 13.7		534.9	S.	6		
7		4724.	1760			88-05	6.1	+ 55.3		576.5		7		
8		4725.	2640			87-40	8.5	+ 98.9		620.1		8		
9	<input type="checkbox"/> O		2770			87-40	13.6	+ 107.2		628.4		9		
10	<input type="checkbox"/> Δ		1430			88-40	7.4	- 25.9	602.5			10		
11		426	880			88-40	11.0	+ 9.5		612.0	N	11		
12		427	0			-	5.2			597.3	-	12		
13		428	880			90-30	10.5	- 18.2		584.3	S.	13		
14		429.	1760			-	6.4			596.1		14		
15		430	2640			89-30	9.8	+ 13.2		615.7		15		
16	<input type="checkbox"/> O	B.M. 79255	3025			89-30	9.8	+ 16.6		619.1		16		
17										619.8		17	(619.76)	

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

HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA _____ STATE/COUNTY AK BOOK NO. 1 PAGE 153 OF _____
 LINE/LOOP NO. RSXN TYPE SURVEY _____ CLIENT _____ DATE 17 DY 2 MO 79 YR
 SURVEYOR L LYMAN INSTRUMENT DESC/SERIAL NO. _____ 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 DJI	RIGHT TURNED HORIZONTAL ANGLE
				SLOPE					HORIZ	INST			
1		B.M. 79255							619.8			1	
2												2	
3			840		88 - 30	11.3	- 10.7	609.1				3	
4		431	330		88 - 30	2.3	+ 6.3		615.4	N		4	
5		—	0		-	5.2			603.9	-		5	
6		432	550		93 - 30	5.0	- 38.5		570.6	S		6	
7		433	1430		93 - 30	8.4	- 95.5		513.6			7	
8		434	2310		93 - 10	9.6	- 137.0		472.1			8	
9			1210		87 - 34	14.2	- 37.1	435.0				9	
10		435	330		87 - 30	4.5	+ 9.9		444.9			10	
11			0		-	5.2			429.7			11	
12		436	550		92 - 05	5.6	- 24.8		410.2			12	
13		437	1430		92 - 05	14.5	- 64.4		378.6			13	
14			1710		88 - 30	10.5	- 35.6	335.0				14	
15		438	880		89 - 20	3.5	+ 6.7		341.7	N		15	
16		439	0		-	5.2			329.8	-		16	
17		CREEK	610		91 - 40	10.5	- 28.2		306.8	S		17	

WORKED BY L P L CHECKED BY 1ST _____ 2ND _____
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HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA _____ STATE/COUNTY AK BOOK NO. 1 PAGE 154 OF _____
 LINE/LOOP NO. R5 XN TYPE SURVEY _____ CLIENT _____ DATE 18 DY 2 MO 79 YR
 SURVEYOR L. LTMAN INSTRUMENT DESC/SERIAL NO. WILD T2 CREW NO. 1186

LINE	<input type="checkbox"/> Δ <input type="checkbox"/> T <input type="checkbox"/> SS <input type="checkbox"/> C	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									335.0			1	
2		440	000		8.0				327.0	S		2	
3	D	441	1760		09-05 10.1	+20.6			355.6			3	
4	Δ		1760		90-27 13.6	+27.4		383.0				4	
5		442	000		14.0				369.0	N		5	
6		443	0		5.2				377.8	-		6	
7		444	000		09-05 9.1	+6.3			389.3	S		7	
8		445	1760		09-05 10.0	+20.7			403.7			8	
9	D	446	2640		00-28-53 14.0	+55.1			438.9			9	
10	Δ		1760		90-30 11.3	+26.7		465.6				10	
11		447	000		90-30 8.0	-15.7			449.9	N		11	
12		448	0		5.2				460.4	-		12	
13		449	000		00-40 8.5	+12.0			453.6	S	477b	13	
14	O	450	1760		00-40 7.6	+33.3			498.9			14	
15												15	
16												16	
17												17	

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

SYMBOLS Δ = BACKSIGHT T = INSTRUMENT SET-UP SS = SIDESHOT C = FORESIGHT

HORIZONTAL AND VERTICAL SURVEY NOTES






GSI AREA _____ STATE/COUNTY AK BOOK NO. 1 PAGE 155 OF _____
 LINE/LOOP NO. R5 x N TYPE SURVEY _____ CLIENT _____ DATE 18 DY 2 MO 79 YR
 SURVEYOR L. LTMAN INSTRUMENT DESC/SERIAL NO. WILD T2 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 D/I	RIGHT TURNED HORIZONTAL ANGLE
				SLOPE					HORIZ	INST			
1		450							498.9			1	
2			1760		14.6	+ 14.6	513.5					2	
3		451	000		11.8	-4.4	-16.2		497.3	N		3	
4		452	0		5.2				508.3	-		4	
5		453	000		2.2				511.3	S		5	
6			1430		89-50	6.5	- 2.3		511.2	-		6	
7			1210		00-10	10.0	- 27.9	483.3				7	
8		454	000		00-10	7.5	+ 20.6		503.9	N		8	
9		455	0		-	5.2			498.1	-		9	
10		456	000		91-40	9.5	- 35.1		448.2	S		10	
11		457	1760		09-30	14.3	+ 1.1		484.4			11	
12		458	2640		09-00	10.8	+ 35.3		518.6			12	
13			1760		91-29	14.0	+ 59.5	578.1				13	
14		459	000		91-00	15.0	- 30.4		547.7	N		14	
15		460	0		-	5.2			572.9	-		15	
16		461	000		00-00	9.4	+ 21.3		599.4	S		16	
17		462	1760		00-20	11.1	+ 40.1		618.2			17	

WORKED BY L.J.L. CHECKED BY 1ST _____ 2ND _____
SYMBOLS = BACKSIGHT = INSTRUMENT SET-UP = SIDESHOT = FORESIGHT

HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA _____ STATE/COUNTY AK. BOOK NO. 1 PAGE 156 OF _____
 LINE/LOOP NO. R5XN. TYPE SURVEY _____ CLIENT _____ DATE 18·DY 2 MO 79·YR
 SURVEYOR L. LTMAN INSTRUMENT DESC/SERIAL NO. WILD. T2 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
				SLOPE 					HORIZ 	INST			
1	⊕	462							618.2			1	
2	Δ		2090		92.00	12.1	+ 84.0	702.2				2	
3		463	1210		92.30	12.5	- 65.2		637.0			3	
4		464	330		93.00	12.5	- 29.7		672.5	N		4	
5	⊗	-	0		-	5.2			697.0	-		5	
6		465	550		87.00	3.7	+ 25.0		727.2	S		6	
7	⊕	466	1430		87-05-10	14.0	+ 58.6		760.8			7	
8	Δ		4510		90-35-45	14.0	+ 60.9	82.5				8	
9	⊗		✓		269-24-30	14.0	+ 60.6					9	
10		467	3630		90.40	14.5	- 56.7		764.8			10	
11		468	2780		92-30	10.0	- 129.8		691.7			11	
12		RAVINE.										12	gully.
13		469	1870		94-40	12.8	- 164.4		157.1			13	
14		470	990		96.00	11.7	- 114.6		766.9			14	
15		471	110		96.00	14.2	- 25.6		795.9	N		15	
16	⊗	-	0		-	5.2			816.3	-		16	
17	⊕		450		81-20	7.5	+ 59.5		881.0	S		17	

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

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

HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA _____ STATE/COUNTY AK. BOOK NO. 1 PAGE 157 OF _____
 LINE/LOOP NO. Roxn. TYPE SURVEY _____ CLIENT _____ DATE 18 DY 2 MO 79 YR
 SURVEYOR L. LYMAN. INSTRUMENT DESC/SERIAL NO. WILD. T2 CREW NO. 1186

LINE	<input type="checkbox"/> Δ <input type="checkbox"/> ∇ <input type="checkbox"/> SS <input type="checkbox"/> \odot	STATION	VERTICAL						HORIZONTAL		REMARKS	
			DISTANCE		VERTICAL ANGLE OBS.	ROD RDG OR HI	ELEV DIFF	FINAL ELEVATION DIFF	ELEVATION			RIGHT TURNED HORIZONTAL ANGLE
			SLOPE	<input type="checkbox"/> FEET <input type="checkbox"/> METERS HORIZ					INST	ROD		
1	\odot										1	
2	Δ		710	91-00	13.9	+ 27.2	908.2				2	
3		472	430	-	14.0			893.4			3	
4	∇		0	-	5.2			903.0			4	
5		473	450	-	11.5			896.7			5	
6	\odot	BM 79256	759	90-00	8.5	+ 18.0		926.2			6	
7								925.7			7	
8						VERTICAL TIE		+ 0.5			8	
9											9	
10	Δ		1330	87-00	4.9	- 64.6	861.1				10	
11		474	770	90-30	10.1	- 16.8		844.3			11	
12	∇		0	-	5.2			855.9			12	
13		475	110	-	5.5			855.6			13	
14	\odot		440	91-30	12.1	- 23.6		837.5			14	
15											15	
16											16	
17											17	

WORKED BY L.G.L. CHECKED BY 1ST _____ 2ND _____
 SYMBOLS Δ = BACKSIGHT ∇ = INSTRUMENT SET-UP SS = SIDESHOT \odot = FORESIGHT

HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA _____ STATE/COUNTY AK. BOOK NO. 1 PAGE 158 OF _____
 LINE/LOOP NO. R5 XN TYPE SURVEY _____ CLIENT _____ DATE 18 DY 2 MO 72 YR
 SURVEYOR L. LYMAN INSTRUMENT DESC/SERIAL NO. T2 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			RIGHT TURNED HORIZONTAL ANGLE
				SLOPE					HORIZ	INST		
1	○								837.5		1	
2	Δ		2310		86-40	4.3	-129.8	707.7			2	
3		476	1760		87-20	5.3	+76.5		724.2		3	
4		477	000		88-00	2.0	+28.7		736.4	N	4	
5		478	0		-	5.2			702.5	-	5	
6		479	000		-	3.3			704.4	S	6	
7	○		1210		-	7.4	-7.4		705.3		7	
8	Δ		1430		89-20	6.5	+10.1	790.2			8	
9		480	000		-	3.0			682.2	N	9	
10		481	0		-	5.2			685.0	-	10	
11		482	000		90-30	11.0	-18.7		671.5	S	11	
12		483	1760		-	5.0			685.2		12	
13		484	2640		89-00	11.6	+34.5		724.7		13	
14	○		2750		89-00	14.2	+33.8		724.0		14	
15	Δ		3086		89-20	8.4	-27.4	696.6			15	
16		485	2310		-	13.7			182.9		16	
17		486	1430		92-20	11.2	-69.4		627.2	N	17	

WORKED BY _____ CHECKED BY 1st _____ 2nd _____

SYMBOLS Δ = BACKSIGHT K = INSTRUMENT SET-UP SS = SIDESHOT ○ = FORESIGHT

HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA UTUKOK. RIVER. STATE/COUNTY AK. BOOK NO. 1 PAGE 159 OF
 LINE/LOOP NO. R5 XN. TYPE SURVEY CLIENT DATE 18 DY 2 MO 77 YR
 SURVEYOR L. LYMAN. INSTRUMENT DESC/SERIAL NO. WILD. T2. 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 DJI	RIGHT TURNED HORIZONTAL ANGLE							
				SLOPE	HORIZ					INST				ROD						
1																				
2		407	550			92-20	13.3	-	35.7		696.6									
3							5.2													
4		400	330				3.5	-	3.5											
5			2750			90-47-47	14.0	+	52.2		745.3									
6		409	1070			92-37-47	8.5	-	94.2											
7		490	990			94-00	11.0	-	79.7											
8		491	110				11.7													
9			0				5.2													
10		BM 72341	724																	
11			600 674			90-00	7.7	+	15.8											
12																				
13																				
14																				
15																				
16																				
17																				

WORKED BY _____ CHECKED BY 1ST _____ 2ND _____

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

HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA _____ STATE/COUNTY ALASKA BOOK NO. 1 PAGE 145 OF _____
 LINE/LOOP NO. R5 XN TYPE SURVEY _____ CLIENT _____ DATE 16 BY 2 MO 79 YR
 SURVEYOR L. LYMAN INSTRUMENT DESC/SERIAL NO. _____ CREW NO. 1186

LINE	 	STATION	VERTICAL							HORIZONTAL		REMARKS	
			DISTANCE		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		B.M. 79251							350.8			1	
2		352										2	
3												3	
4			0		5.1	+ 5.6		356.4				4	
5		68/131	1310	90-30	10.2	- 21.6		334.8		SE.		5	OLD 120 W
6		(OLD PIPE)						334.0				6	PIPE.
7							VERTICAL	+ 0.8				7	
8							TIE					8	
9		353	000	-	10.5			345.9		S.		9	
10		354	1760	-	9.8	- 7.8		346.6				10	
11			1760	90-20	10.7	+ 20.9		367.5				11	
12		355	000	-1/2	10.8	-4.4	-15.2	352.3		N		12	
13		356	0	-	5.4			362.1		-		13	
14		357	000	-	1.1			366.4		S.		14	
15		B.M. 79252	1520	89-40	6.2	+ 2.6		370.1		✓		15	
16								370.1				16	
17							VERTICAL TIE	0.0				17	

WORKED BY L.G.C. CHECKED BY 1ST _____ 2ND _____
 SYMBOLS = BACKSIGHT = INSTRUMENT SET-UP = SIDESHOT = FORESIGHT