

# HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA LOOKOUT RIDGE STATE/COUNTY AK BOOK NO. \_\_\_\_\_ PAGE 1 OF \_\_\_\_\_  
 LINE/LOOP NO. 746 TYPE SURVEY \_\_\_\_\_ CLIENT HUSKY DATE 19-DY 3 MO 80 YR  
 SURVEYOR C. CTMAN. INSTRUMENT DESC/SERIAL NO. \_\_\_\_\_ CREW NO. 1186

LINE	SS ⊙	STATION	VERTICAL						ELEVATION		LR OR DR	HORIZONTAL RIGHT TURNED HORIZONTAL ANGLE	LINE	REMARKS
			DISTANCE		VERTICAL ANGLE OBS.	ROD RDG OR HI	ELEV DIFF	FINAL ELEVATION DIFF	INST	ROD				
			SLOPE	HORIZ										
1												1		
2	⊙	TP. 15.							1451.7			2		
3		SP. 325 + 715							1450.9			3	LINE 731.	
4		LN - 731.							10.8			4	VERTICAL TIE.	
5												5		
6	Δ		550		88-40	+9.3		-3.5	1448.2			6		
7	CK		✓		271-30	+10.9		-3.5	1444.7			7		
8		SP. 326	385.		271-30	+8.9		+3.2	1451.4		W	8		
9		LN - 731.										9		
10												10		
11		LN 731 / 746	0		-	6.0			1442.2			11	LN 731 / 746.	
12		SP. 124.										12	IRON - PIPE.	
13												13		
14	⊙		715		87-20	+9.7		+23.5	1471.6			14	1471.2 S.	
15	CK		✓		273-00	+14.0		+23.4				15		
16												16		
17												17		

WORKED BY C. J. L. CHECKED BY 1ST \_\_\_\_\_ 2ND \_\_\_\_\_  
 SYMBOLS Δ = BACKSIGHT    ⊕ = INSTRUMENT SET-UP    SS = SIDESHOT    ⊙ = FORESIGHT

# HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA \_\_\_\_\_ STATE/COUNTY AK BOOK NO. \_\_\_\_\_ PAGE 2 OF \_\_\_\_\_  
 LINE/LOOP NO. 746 TYPE SURVEY \_\_\_\_\_ CLIENT HUSKY DATE 17 DY 3 MO 80 YR  
 SURVEYOR L. C. MAN. INSTRUMENT DESC/SERIAL NO. \_\_\_\_\_ CREW NO. 1186

LINE	<input type="checkbox"/> Δ <input type="checkbox"/> SS <input type="checkbox"/> ⊙	STATION	VERTICAL							ELEVATION		L/R OR DI	RIGHT TURNED HORIZONTAL ANGLE	LINE	REMARKS
			DISTANCE		VERTICAL ANGLE OBS.	ROD RDG OR HI	ELEV DIFF	FINAL ELEVATION DIFF	INST	ROD					
			SLOPE	HORIZ											
1													1		
2	⊙									1471.6			2		
3	Δ		660		90-20	72.1	+15.9	1487.6					3		
4	CK		✓		269-30	70.3	+16.1						4		
5		123	495		-	74.3				1473.3			5		
6			0		-	3.2				1482.4			6		
7	⊙	TRI - STA	550		88-30	3.9	+6.5	1494.0				T.O.	7		U.S.G.S.
8	CK	AWUNA	✓		272-00	72.9	+6.3					ELV.	8		BRASS CAP
9													9		
10													10		
11													11		
12													12		
13	Δ		550		88-30	7.9	-6.5	1487.6					13		
14	CK		✓		272-00	72.9	-6.3						14		
15		122	395		93-00	3.2	-25.9	1461.7					15		
16		121	1265		93-00	70.3	-76.4	1411.2					16		
17													17		

WORKED BY L. J. L. CHECKED BY 1ST \_\_\_\_\_ 2ND \_\_\_\_\_

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# HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA \_\_\_\_\_ STATE/COUNTY AK BOOK NO. \_\_\_\_\_ PAGE 3 OF \_\_\_\_\_  
 LINE/LOOP NO. 746 TYPE SURVEY \_\_\_\_\_ CLIENT HUSKY DATE 19 DY 3 MO 80 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			UR OR DI	RIGHT TURNED HORIZONTAL ANGLE
				SLOPE	HORIZ					INST	ROD			
1									1487.6			1		
2		120	2145.		91-50	8.2	- 76.8		1410.8			5	2	
3			2530		91-45-20	14.0	- 91.5		1396.2		1397.2		3	
4			✓		268-14.50	14.0	- 91.3						4	
5			1375.		85-10	+8.3	- 107.1		1289.0				5	
6			✓		275-00	+72.2	- 107.2						6	
7		119.	880		275-00	10.5	+ 65.9		1354.9			✓	7	
8		118.	0		-	5.3			1283.7			-	8	
9		117.	880		93-00	10.0	- 56.0		1233.0			S.	9	
10		114.	1760		72-00	12.0	- 74.4		1214.6				10	
11		115.	2640		91-50	9.7	- 74.1		1194.7		1196.7		11	
12			✓		268-15-40	14.0	- 94.1						12	
13			2035		87-20	+5.4	- 89.2		1105.8				13	
14			✓		272-50	+11.4	- 89.1						14	
15		114.	1155		272-00	8.4	+ 31.9		1137.7				15	
16		113.	275		-	3.6			1102.2			N.	16	
17			0		-	5.4			1100.4			-	17	

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# HORIZONTAL AND VERTICAL SURVEY NOTES

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GSI AREA \_\_\_\_\_ STATE/COUNTY AK BOOK NO. \_\_\_\_\_ PAGE 4 OF \_\_\_\_\_  
 LINE/LOOP NO. 746 TYPE SURVEY \_\_\_\_\_ CLIENT AUSK 79 DATE 19 .DY 3 MO 90 YR  
 SURVEYOR L. LYMAN INSTRUMENT DESC/SERIAL NO. \_\_\_\_\_ CREW NO. 1186

LINE	<input type="checkbox"/> Δ <input type="checkbox"/> SS <input type="checkbox"/> ⊙	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			605							1105.8			1	
2		112	745		91-30	73.7	-29.5			1076.3		5	2	
3		111	1405		-	7.2				1096.6			3	
4	⊙		2090		89-30	73.7	+4.5			1110.2		1112.6	4	
5	CK		✓		270-20	7.8	+4.4	✓					5	
6	Δ		2020		88-50	73.2	-37.9		1072.3				6	
7	CK		✓		271-20	+9.1	-37.9						7	
8		110	1760		270-30	3.7	+11.7			1084.0			8	CK
9		109	800		-	71.5				1060.8		N	9	
10		108	0		-	5.4				1066.9		-	10	
11		107	800		-	4.2				1068.1		S	11	
12		106	1760		89-40	7.0	+3.2			1075.5			12	
13	⊙	105	2640		89-40	5.7	+7.75			1071.8		1089.9	13	
14	CK		✓		270-30	73.6	+9.4						14	
15													15	
16													16	
17													17	

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# HORIZONTAL AND VERTICAL SURVEY NOTES

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GSI AREA \_\_\_\_\_ STATE/COUNTY AK BOOK NO. \_\_\_\_\_ PAGE 5 OF \_\_\_\_\_  
 LINE/LOOP NO. 746 TYPE SURVEY \_\_\_\_\_ CLIENT HUSKY DATE 19-DY 3 MO 80 YR  
 SURVEYOR L. LAMAN 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 DI		RIGHT TURNED HORIZONTAL ANGLE	LINE
				SLOPE 					HORIZ	INST				
1		105.								1081.8			1	
2			2640		91-20	+12.9	+74.3	1156.2					2	
3			✓		268-30	+5.4	+74.5						3	
4		104.	1760		248-30	72.0	-58.1			1098.1			4	
5		103.	880		268-30	70.4	-33.4			1122.9			5	N
6		102.	0		-	5.4				1150.8			6	-
7		101.	880		57-00	7.7	+36.3			1192.5			7	S
8		100	1760		86-40	2.4	+95.8			1251.9	1255.3		8	FIRST SP.
9			✓		273-30	11.7	+75.5						9	SOUTH-END.
10			1920		96-30	+12.4	+228.4	1480.4					10	
11			✓		263-20	+7.2	+228.6						11	
12		TS.# 12 (88)	660		262-00	2.2	-97.2			1383.2			12	N
13		TS.# 18 (82)	0		-	3.4				1475.0			13	-
14		BM. 20182.	400		72-00	2.4	-20.4			1460.0			14	W
15			✓		268-40	11.1	-20.4						15	
16										1463.5			16	
17										-3.5			17	VERTICAL TIE.

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# HORIZONTAL AND VERTICAL SURVEY NOTES

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GSI AREA LOOKOUT RIDGE. STATE/COUNTY AK. BOOK NO. \_\_\_\_\_ PAGE 6. OF \_\_\_\_\_  
 LINE/LOOP NO. 746. TYPE SURVEY \_\_\_\_\_ CLIENT \_\_\_\_\_ DATE 19. DY 3 MO 20 YR  
 SURVEYOR L. L. MAN. 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		RIGHT TURNED HORIZONTAL ANGLE		LINE	
			SLOPE	HORIZ					INST	ROD				
1												1		
2		TS. # 24 (76)	660		83-55	4.2	+75.6		1556.0			S	2	
3		TS. # 27 (73)	950		82-10	70.3	+123.4		1603.8	1607.1			3	
4			770		90-10	73.3	+15.5	1619.3					N	4
5		TS. # 34 (66)	0		-	5.3			1614.0				-	5
6		TS. # 36 (64)	220		92-30	4.5	-14.1		1605.2	1608.6		S	6	
7			0		-	5.3	+5.3	1610.5					7	
8													8	
9		TS. # 48 (62)	1720		93-34-50	4.5	-86.8		1523.7	1527.1		S	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 LOOKOUT RIDGE STATE/COUNTY AK. BOOK NO. \_\_\_\_\_ PAGE 7 OF \_\_\_\_\_  
 LINE/LOOP NO. 746 TYPE SURVEY \_\_\_\_\_ CLIENT HUSKY DATE 12 DY 3 MO 8 YR  
 SURVEYOR L. LYMAN INSTRUMENT DESC/SERIAL NO. \_\_\_\_\_ CREW NO. 1186

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				
1														1	
2		TRI - STA - "ANUNA"								1474.0				2	BRASS - CAP.
3														3	U.S.G.S.
4														4	
5														5	
6			770		87-40	+2.1	-25.2	1468.8						6	
7			✓		272-30	+0.4	-25.2						SW	7	
8			0		-	5.3				1463.5			-	8	
9		124.	400		92-05	72.0	-26.0			1442.8			N	9	4.731 / 746
10		125.	1270		92-20	79.8	-61.5			1407.3				10	
11			1880		91-30	70.6	-59.8			1409.0		1411.5		11	
12			✓		268-20	5.1	-59.8							12	
13			2035		85-40	+3.6	-149.7	1259.3						13	
14			✓		274-30	+9.5	-149.7							14	
15		126.	1760		274-30	-9.2	+128.5			1387.8				15	
16		127.	880		274-00	5.6	+55.6			1314.9			S.	16	
17		128.	0		-	5.3				1254.0			-	17	

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# HORIZONTAL AND VERTICAL SURVEY NOTES

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GSI AREA \_\_\_\_\_ STATE/COUNTY AK. BOOK NO. \_\_\_\_\_ PAGE 8 OF \_\_\_\_\_  
 LINE/LOOP NO. 746. TYPE SURVEY \_\_\_\_\_ CLIENT HUSKY. DATE 19 DY 3 MO 80 YR  
 SURVEYOR L. LYMAN. INSTRUMENT DESC/SERIAL NO. \_\_\_\_\_ CREW NO. 1186

LINE	<input type="checkbox"/> $\Delta$ <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 DI	RIGHT TURNED HORIZONTAL ANGLE	LINE
				SLOPE	HORIZ					INST	ROD				
1									1259.3				1		
2		129.	800			93-10	10.0	- 58.5		1200.8			N 2		
3		130.	1760			73-10	5.4	- 102.5		1156.8			3		
4	$\odot$	131.	2640			92-53-05	74.0	- 146.7		1112.4		1115.3	4		
5	CK		✓			267-06-20	74.0	- 147.1					5		
6	$\Delta$		2640			88-20	77.6	- 69.2		1043.3			6		
7	CK		✓			271-48-20	74.0	- 67.1					7		
8		132.	1760			271-00	7.2	+ 27.5		1070.8			8		
9		133.	880			271-00	7.7	+ 7.7		1051.0			S 9		
10		134.	0			-	5.3			1038.0			- 10		
11		135.	880			-	74.0			1029.3			N 11		
12		136.	1760			70-40	9.5	- 30.0		1013.3			12		
13	D	137.	2640			90-30	72.2	- 35.2		1008.0		1011.2	13		
14	CK		✓			267-20	74.6	- 35.3					14		
15													15		
16													16		
17													17		

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 SYMBOLS  $\Delta$  = BACKSIGHT  $\nabla$  = INSTRUMENT SET-UP SS = SIDESHOT  $\odot$  = FORESIGHT



# HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA \_\_\_\_\_ STATE/COUNTY AK BOOK NO. \_\_\_\_\_ PAGE 9 OF \_\_\_\_\_  
 LINE/LOOP NO. 746 TYPE SURVEY \_\_\_\_\_ CLIENT HUSKY DATE 17 DY 3 MO 90 YR  
 SURVEYOR C. L. MAN. INSTRUMENT DESC/SERIAL NO. \_\_\_\_\_ CREW NO. 1186

LINE	 SS 	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		137								1009.0			1		
2			2640		89-20	+72.6	-18.1	✓	989.9				2		
3	CK		✓		270-30	+5.0	-18.0						3		
4		130			270-30	-2.4	+9.0			998.9			4		
5		139			270-30	-13.0	-5.3			984.6			S 5		
6		140			-	-5.3				984.6			- 6		
7		141			29-30	-5.7	+2.0			991.9			N 7		
8		142			89-30	-2.0	+9.4			999.3			8		
9			2145		89-30	-10.7	+2.0	7.9		997.8	1001.3		9		
10	CK		✓		270-35	-14.0	+7.7						10		
11			495		-	+0.9	+0.9	✓	998.7				11		
12	CK		✓		271-00	+9.6	+1.0						S 12		
13		143			-	-5.3				993.4			- 13		
14		144			91-40	-12.3	-37.9			960.8			N 14	'AWUNNA' CRK 495' N	
15		145			91-30	-9.5	-55.6			943.1			15		
16		146			90-30	-12.9	-35.9			962.7	966.8		16		
17	CK		✓		269-20	-5.3	-36.0	✓					17		

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# HORIZONTAL AND VERTICAL SURVEY NOTES

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GSI AREA \_\_\_\_\_ STATE/COUNTY AK BOOK NO. \_\_\_\_\_ PAGE 10 OF \_\_\_\_\_  
 LINE/LOOP NO. 746 TYPE SURVEY \_\_\_\_\_ CLIENT HASKY DATE 20 DY 3 MO 80 YR  
 SURVEYOR L. LTMAN INSTRUMENT DESC/SERIAL NO. \_\_\_\_\_ CREW NO. 1196

LINE	<input type="checkbox"/> Δ <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	⊙	146.							962.7			1			
2	Δ		1760		92-20	+9.9	+81.5	1044.2				2			
3	CK		✓		267-47-50	+14.0	+81.6					3			
4		147.	000		267-30	-7.0	-45.3		998.9			S. 4			
5		148.	0		-	3.3			1038.9			- 5			
6	⊙	149.	880		88-30	-7.0	+16.0		1060.2		1069.4	N. 6			
7	CK		✓		271-40	-9.6	+16.0						7		
8	Δ		2640		91-50	+12.2	+96.6	1156.9					8		
9	CK.		✓		268-05	+4.7	+96.8						9		
10		150	1760		267-30	-7.9	-84.5		1072.4				10		
11		151.	880		267-30	-4.7	-43.0		1113.9			S. 11			
12		152.	0		-	5.4			1151.5			- 12			
13	⊙	153.	880		88-20	-70.3	+15.3		1172.2		1176.4	N. 13			
14	CK.		✓		271-50	-72.8	+15.3						14		
15													15		
16													16		
17													17		

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# HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA \_\_\_\_\_ STATE/COUNTY AK. BOOK NO. \_\_\_\_\_ PAGE 11 OF \_\_\_\_\_  
 LINE/LOOP NO. 746 TYPE SURVEY \_\_\_\_\_ CLIENT HUSKY DATE 20 DY 3 MO 80 YR  
 SURVEYOR L. LAMAN INSTRUMENT DESC/SERIAL NO. \_\_\_\_\_ 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			RIGHT TURNED HORIZONTAL ANGLE	LINE
				SLOPE	HORIZ					INST	ROD			
1	⊙	153							1172.2			1		
2	Δ		880				+6.2	+6.2	1178.4			2		
3	CK		✓			270-20	+11.2	+6.1				3		
4												4		
5	⊙	BM 80181	1520			88-40	11.1	+24.3 ✓	1202.7		✓	5		
6	CK		✓			271-26-48	14.0	+24.4				6		
7									1207.1			7		
8									-4.4	VERTICAL		8	TIE.	
9												9		
10	Δ		1520			88-40	+11.1	-24.3	1182.9			10		
11	CK		✓			271-26-48	+14.0	-24.4			✓	11		
12		154	0				5.3		1177.5			12		
13		155	880			90-50	7.0	-17.8	1164.0		✓	13		
14		156	1760			90-50	14.6	-40.2	1142.6			14		
15	⊙	157	2640			90-30	14.4	-37.4	1145.6	1143.5		15		
16	CK		✓			269-20	6.3	-37.0				16		
17												17		

WORKED BY L.G.L. CHECKED BY 1ST \_\_\_\_\_ 2ND \_\_\_\_\_

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

# HORIZONTAL AND VERTICAL SURVEY NOTES

12

GSI AREA \_\_\_\_\_ STATE/COUNTY AL BOOK NO. \_\_\_\_\_ PAGE 12 OF \_\_\_\_\_  
 LINE/LOOP NO. 746 TYPE SURVEY \_\_\_\_\_ CLIENT HUSKY DATE 20 DY 3 MO 80 YR  
 SURVEYOR L. LYMAN INSTRUMENT DESC/SERIAL NO. \_\_\_\_\_ CREW NO. 1186

LINE	<input type="checkbox"/> Δ <input type="checkbox"/> SS <input type="checkbox"/> ⊙	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	LR OR DR	RIGHT TURNED HORIZONTAL ANGLE	
				SLOPE									
1	⊙	157										1	
2	Δ		880		89-00	5.3	- 10.1	1135.7	1145.6			2	
3	CK		✓		271-30	73.3	- 9.7					3	S.
4		158	0		-	5.4			1130.3			4	-
5		159	880		91-40	7.4	- 35.0		1100.7			5	N.
6		160	1760		91-40	7.5	- 60.7		1075.0			6	
7	⊙	161	2640		91-30	74.8	- 83.8		1051.8		1049.7	7	
8	CK		✓		268-20	7.2	- 84.0					8	
9	Δ		2640		-	+5.5	+ 5.5	1057.3				9	
10	CK		✓		270-10	73.1	+ 5.4					10	
11		162	1760		-	72.4			1044.9			11	
12		163	880		-	5.6			1051.7			12	S.
13		164	0		-	5.3			1052.0			13	-
14		165	880		88-20	2.6	+ 23.0		1080.3			14	N.
15		166	1760		88-00	7.3	+ 60.1		1117.4			15	
16	⊙	167	2640		87-40	73.2	+ 44.2		1151.5		1149.1	16	
17	CK		✓		272-10	5.6	+ 94.1					17	

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# HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA \_\_\_\_\_ STATE/COUNTY AK BOOK NO. \_\_\_\_\_ PAGE 13 OF \_\_\_\_\_  
 LINE/LOOP NO. 746 TYPE SURVEY \_\_\_\_\_ CLIENT HULKY DATE 20 DY 3 MO 20 YR  
 SURVEYOR L. LYMAN INSTRUMENT DESC/SERIAL NO. \_\_\_\_\_ CREW NO. 1186

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		127											1	
2			220		91-05	7.4	+25.0	1176.5					2	
3	CK		✓		269-50	7.1	+25.0						3	S.
4		112	0		-	5.3							4	-
5		169	220		89-40	4.6	+0.5						5	N.
6			✓										6	
7		BM. 20120	755		88-00	7.9	+16.4	1192.9					7	W
8	CK		✓		272-20	7.3	+16.4						8	
9													9	
10								1190.5					10	
11								+2.4					11	VERTICAL TIE.
12			<del>1105</del>		<del>87-00</del>	<del>4.7</del>							12	
13	CK		✓		<del>271-20</del>	<del>7.0</del>							13	S.
14		169	0			5.3							14	
15													15	
16													16	
17													17	

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# HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA LOOKOUT RIDGE. STATE/COUNTY AL. BOOK NO. \_\_\_\_\_ PAGE 14. OF \_\_\_\_\_  
 LINE/LOOP NO. 746. TYPE SURVEY \_\_\_\_\_ CLIENT HUSKY. DATE 20 DY 3 MO 80 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		LR OR DR		RIGHT TURNED HORIZONTAL ANGLE	LINE
				SLOPE					HORIZ	INST				
1		BM 80180											1	
2													2	
3			1100		29-05	+2.3	-10.9	1179.6					3	
4			✓		271-20	+14.7	-10.9					SW	4	
5		169	0		-	5.3		1174.3				-	5	
6		170	880		91-30	9.0	-32.0	1147.6				N	6	
7		171	1760		91-00	8.2	-38.9	1140.7					7	
8		172	2640		90-10	73.3	-21.0	1158.7			1157.7		8	
9			✓		269-40	5.5	-20.9						9	
10			880		88-40	+13.4	-7.1	1151.7					10	
11			✓		271-10	+10.9	-7.0					S	11	
12		173	0		-	5.3		1146.4				-	12	
13		174	880		92-10	73.0	-46.2	1105.5				N	13	
14		175	1760		92-10	11.4	-77.9	1073.8					14	
15		176	2640		92-00	73.1	-105.2	1046.5			1045.5		15	
16			✓		267-50	5.4	-105.1						16	
17													17	

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# HORIZONTAL AND VERTICAL SURVEY NOTES

15

GSI AREA \_\_\_\_\_ STATE/COUNTY AK BOOK NO. \_\_\_\_\_ PAGE 15 OF \_\_\_\_\_  
 LINE/LOOP NO. 746 TYPE SURVEY \_\_\_\_\_ CLIENT HUSKY DATE 20 DY 3 MO 80 YR  
 SURVEYOR L. LITMAN INSTRUMENT DESC/SERIAL NO. \_\_\_\_\_ CREW NO. 1186

LINE	 SS  O	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	O	176								1046.5			1		
2	Δ		1760		90-30	+12.3	+27.7	1074.3					2		
3	CK		✓		269-20	+7.5	+28.0						3		
4		177	220		269-00	71.4	-27.0			1047.3			S	4	
5		178	0		-	5.3				1069.0			-	5	
6		179	220		91-00	5.8	-21.2			1053.1			N	6	
7		180	1760		90-20	10.3	-20.5			1053.7				7	
8		181	2640		-	7.1				1065.2				8	
9	O	182	3520		-	4.7	-4.7			1069.6		1060.8		9	
10	CK		✓		270-09-06	74.0	-4.7							10	
11	Δ		3520		89-30	+4.8	-25.9	1043.7						11	
12	CK		✓		270-39-02	+14.0	-26.0							12	
13		183	2640		270-10	9.0	-1.3			1042.4				13	
14		184	1760		269-40	8.3	-18.5			1025.2				14	
15		185	220		269-00	-12.3	-27.7			1016.0			S	15	
16		186	0		-	5.3				1038.4			-	16	
17													N	17	

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# HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA \_\_\_\_\_ STATE/COUNTY AK. BOOK NO. \_\_\_\_\_ PAGE 16 OF \_\_\_\_\_  
 LINE/LOOP NO. 746 TYPE SURVEY \_\_\_\_\_ CLIENT HUSKY DATE 20 DY 3 MO 80 YR  
 SURVEYOR L. LYMAN INSTRUMENT DESC/SERIAL NO. \_\_\_\_\_ CREW NO. 1186

LINE	 SS 	STATION	VERTICAL							HORIZONTAL		LINE	REMARKS	
			DISTANCE		VERTICAL ANGLE OBS.	ROD RDG OR HI	ELEV DIFF	FINAL ELEVATION DIFF	ELEVATION		LR OR DR			RIGHT TURNED HORIZONTAL ANGLE
			SLOPE	HORIZ					INST	ROD				
1									1043.7			1		
2		187	880		72.0					1031.7		2		
3		188	1760		75.0		- 15.0			1028.7	1027.5	3		
4			✓	269-50	70.0		- 15.1					4		
5			1760	89-10	+9.1		- 16.5	1012.2				5		
6			✓	270-40	+4.0		- 16.5					6		
7		189	880	270-40	3.5		+ 6.7			1018.9		5	7	
8		190	0		3.3					1006.9		-	8	
9		191	880	92-00	7.6		- 35.3			976.9		N.	9	CRV.
10		192	1760		7.2					1009.0			10	
11		193	2440	88-30	2.0		+ 61.1			1073.3	1072.2		11	
12			✓	271-37-54	74.0		+ 61.1						12	
13			<del>2035</del> 2145	91-50	+73.5		+ 82.1	1155.4					13	
14			✓	268-00	+7.3		+ 82.1						14	
15		194	1735	1260	7.0		- 49.9			1105.5			15	
16		195	275	385	3.0		- 19.2			1136.2		S.	16	
17			0		3.3					1150.1		-	17	

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# HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA LOOKOUT RIDGE. STATE/COUNTY AK. BOOK NO. \_\_\_\_\_ PAGE 17 OF \_\_\_\_\_  
 LINE/LOOP NO. 746. TYPE SURVEY \_\_\_\_\_ CLIENT HUSKY. DATE 21 DY 3 MO 80 YR  
 SURVEYOR L. LAMAN. INSTRUMENT DESC/SERIAL NO. \_\_\_\_\_ CREW NO. 1186

LINE	<input type="checkbox"/> Δ <input type="checkbox"/> SS <input type="checkbox"/> ⊙	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		TP.	33.0			-	3.0					2	TP. 195+715	
3	⊙	BM. 20179.	1210			-	11.8	-	11.8			3		
4	CK		✓			269-50	7.2	-	11.7			4		
5												5		
6												6		
7												7		
8												8		
9	Δ		88.0			-	14.1	+	14.1	1156.5		9		
10	CK		✓			269-30	16.4	+	14.1			N	10	
11		196	165			-	7.5			1150.0		N	11	
12		-	0			-	3.3			1151.2		-	12	
13		197	1045			-	14.0			1142.5		N	13	
14		198	1925			269-50	10.8	-	16.4	1140.1			14	
15		199	2805			269-50	9.7	-	17.9	1138.6			15	
16	⊙	200	3685			269-56-55	14.0	-	17.3	1139.2	1138.5		16	
17	CK		✓			70-03-05	14.0	-	17.3				17	

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# HORIZONTAL AND VERTICAL SURVEY NOTES

18

GSI AREA \_\_\_\_\_ STATE/COUNTY AK BOOK NO. \_\_\_\_\_ PAGE 18 OF \_\_\_\_\_  
 LINE/LOOP NO. 746 TYPE SURVEY \_\_\_\_\_ CLIENT HUSKY DATE 21 DY 3 MO 80 YR  
 SURVEYOR L. CYMAN INSTRUMENT DESC/SERIAL NO. \_\_\_\_\_ 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			RIGHT TURNED HORIZONTAL ANGLE	LINE
				SLOPE	HORIZ					INST	ROD			
1	⊙	200								1139.2			1	
2	Δ		890			99-20	5.0	-5.2	1134.0				2	
3	CK		✓			271-05	10.2	-5.2					3	
4		201	0			-	5.3			1128.7			4	
5		202	880			91-40	7.0	-31.6		1102.4			5	
6		203	1760			91-40	9.4	-60.6		1073.4			6	
7	⊙	204	2640			91-30	13.4	-82.5		1051.6	1050.9		7	
8	CK		✓			268-25-40	10.0	-82.4					8	
9	Δ		2640			90-10	9.0	+16.7	1068.3				9	
10	CK		✓			269-56-25	14.0	+16.8					10	
11		205	1760			269-40	8.8	-19.0		1049.3			11	
12		206	880			-	11.3			1057.0			12	
13		207	0			-	5.4			1062.9			13	
14		208	880			90-30	7.6	-15.3		1053.0			14	
15		209	1760			90-50	8.6	-37.2		1031.1			15	+ 3' 8" 57"
16	⊙	210	2640			90-40	14.2	-44.9		1023.5	1022.8		16	
17	CK		✓			269-14-54	10.0	-44.6					17	

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# HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA \_\_\_\_\_ STATE/COUNTY AK. BOOK NO. \_\_\_\_\_ PAGE 19 OF \_\_\_\_\_  
 LINE/LOOP NO. 746. TYPE SURVEY \_\_\_\_\_ CLIENT ANUSKY. DATE 21 DY 3 MO 8 YR  
 SURVEYOR C. LYMAN. INSTRUMENT DESC/SERIAL NO. \_\_\_\_\_ CREW NO. 1186

LINE	<input type="checkbox"/> Δ <input type="checkbox"/> SS <input type="checkbox"/> ⊙	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	⊙	210											1	
2	Δ		2915			-	715.0	+ 15.0	1038.6				2	
3	CK		✓			269-58-36	714.0	+ 15.2					3	
4		211	2035			269-50	714.0	- 19.9	1018.7				4	
5		212	1155			269-40	711.7	- 18.4	1020.2				5	
6		213	275			-	710.0		1028.6				6	
7			0			-	713.3		1033.3				7	
8		214	605			-	710.1		1028.5				8	
9		215	1125			-	711.0		1027.6				9	
10		216	2365			-	713.0		1033.6				10	
11	⊙	217	3245			89-30	714.6	+ 13.7	1052.4		1051.7		11	
12	CK		✓			270-25-20	710.0	+ 13.9					12	
13	Δ		2915			90-05-45	714.0	+ 18.7	1071.4				13	
14	CK		✓			269-54-00	714.0	+ 19.1					14	
15		218	2035			269-40	712.4	- 24.2	1047.2				15	
16		219	1155			269-30	712.0	- 22.1	1049.3				16	
17		220	275			-	713.0		1063.6				17	

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# HORIZONTAL AND VERTICAL SURVEY NOTES

20

GSI AREA \_\_\_\_\_ STATE/COUNTY AK. BOOK NO. \_\_\_\_\_ PAGE 20 OF \_\_\_\_\_  
 LINE/LOOP NO. 746 TYPE SURVEY \_\_\_\_\_ CLIENT HUSKY. DATE 21 DAY 3 MO 80 YR  
 SURVEYOR L LAMAN INSTRUMENT DESC/SERIAL NO. \_\_\_\_\_ CREW NO. 1126

LINE	<input type="checkbox"/> Δ <input type="checkbox"/> SS <input type="checkbox"/> ⊙	STATION	VERTICAL						ELEVATION		L/R 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										1071.4			S.	1
2			0			-	5.3				1066.1		-	2
3		221	605.			-	11.5				1059.9		N	3
4		222	4125			90-20	6.2	-	14.8		1056.6			4
5	⊙	223	2365			90-10	13.3	-	20.2		1051.3		1050.5	5
6	Δ		✓			269-45-20	70.0	-	20.1					6
7	Δ		4125			90-02-20	14.0	+	24.0	1075.7				7
8	Δ		✓			269-51-00	14.0	+	24.8					8
9		224	3245			269-50-00	12.3	-	21.7		1054.0			9
10		225	2365			269-40	11.2	-	25.0		1050.7			10
11		226	1185			269-30	10.5	-	23.5		1052.2			11
12		227	605.			269-30	10.5	-	15.8		1059.9		S.	12
13			0			-	5.3				1070.4		-	13
14		228	275			-	5.0				1069.9		✓	14
15		229	1155			90-20	9.2	-	15.9		1059.8			15
16		230	2035.			-	11.7				1064.0			16
17														17

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# HORIZONTAL AND VERTICAL SURVEY NOTES

21

GSI AREA \_\_\_\_\_ STATE/COUNTY AK. BOOK NO. \_\_\_\_\_ PAGE 21 OF \_\_\_\_\_  
 LINE/LOOP NO. 746 TYPE SURVEY \_\_\_\_\_ CLIENT HUSKY DATE 21 DY 3 MO 8 YR  
 SURVEYOR L. L. MAN. INSTRUMENT DESC/SERIAL NO. \_\_\_\_\_ 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		UR OR DI			RIGHT TURNED HORIZONTAL ANGLE
				SLOPE					HORIZ	INST				
1									1075.7			1		
2		231.	2915		-	2.0	-	2.0		1073.8	1072.8	N	2	
3			✓		270-14-30	14.0	-	1.7					3	
4			2640		-	13.0	+	13.0	1086.9				4	
5			✓		269-50	15.5	+	12.2					5	
6		232.	1760		-	75.0				1071.9			6	
7		233.	880		269-40	12.6	-	17.7		1069.2		S	7	
8		234.	0		-	5.4				1081.5		-	8	
9		235.	880		89-50	4.3	+	11.1		1098.0		N	9	
10		236.	1760		88-40	9.6	+	31.3		1118.3	1117.2		10	
11			✓		271-30	14.6	+	31.5					11	
12			880		89-40	4.8	-	0.3	1118.0				12	
13			✓		270-30	17.4	-	0.3					13	
14		TP.	275		-	7.0				1115.0		S	14	
15		237	0		-	5.3				1112.7		-	15	
16		238.	880		91-00	9.5	-	24.9		1093.2	1092.0		16	
17			✓		269-10	12.0	-	24.8					17	

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

# HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA LOOKOUT RIDGE. STATE/COUNTY AK. BOOK NO. \_\_\_\_\_ PAGE 22 OF \_\_\_\_\_  
 LINE/LOOP NO. 746 TYPE SURVEY \_\_\_\_\_ CLIENT HUSKY DATE 21 DY 3 MO 80 YR  
 SURVEYOR L. LYMAN INSTRUMENT DESC/SERIAL NO. \_\_\_\_\_ 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			RIGHT TURNED HORIZONTAL ANGLE
				SLOPE	HORIZ					INST	ROD		
1	⊙	238								1093.2			1
2	Δ		505		87-10	+3.3	-	21.4	1071.9				2
3	CK		✓		273-20	+7.2	-	21.2				S	3
4			0		-	5.3				1066.6		-	4
5	⊙	BM 80178	970		-	2.4	-	2.4		1069.5		W	5
6	CK		✓		270-20	8.1	-	2.5					6
7										1068.3			7
8										+1.2	VERTICAL		8 TIE
9	Δ		970		-	+2.4	+	2.4	1070.7				9
10	CK		✓		270-20	+8.1	+	2.5				W	10
11		239	385		98-58-55	75.0	-	74.4		996.3		N	11
12	⊙		1105		96-00	73.8	-	128.2		942.6			12
13	CK		✓		263-50	70.5	-	128.0					13
14													14
15													15
16													16
17													17

WORKED BY L.J.L. CHECKED BY 1ST \_\_\_\_\_ 2ND \_\_\_\_\_

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

# HORIZONTAL AND VERTICAL SURVEY NOTES

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GSI AREA LOOKOUT RIDGE STATE/COUNTY AK BOOK NO. \_\_\_\_\_ PAGE 23 OF \_\_\_\_\_  
 LINE/LOOP NO. 746 TYPE SURVEY \_\_\_\_\_ CLIENT HUSKY DATE 21 DY 3 MO 80 YR  
 SURVEYOR L. LYMAN 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	FINAL ELEVATION DIFF	ELEVATION		RIGHT TURNED HORIZONTAL ANGLE		LINE	
			SLOPE	HORIZ					INST	ROD				
1	○										942.6		1	
2	Δ		1930		84-20	+2.7	-186.7	756.0					2	
3	Δ				275-50	+8.8	-186.3						3	
4		240	1760		275-20	+7.4	+155.5	711.5					4	
5		241	880		275-00	+70.0	+66.4	722.4					5	
6		242			-	3.3		750.7					6	LAST SP.
7													7	NORTH
8													8	<del>ROAD PILE</del>
9													9	
10		TS. # 12 (254)	1265		93-17-20	+4.5	-77.0	679.0					10	
11		TS. # 24 (266)	2585		92-55-20	+6.0	-137.6	618.4					11	
12		TS. # 36 (278)	3905		92-37-38	+4.5	-123.3	572.7					12	
13		TS. # 48 (290)	5225		92-01-40	+6.2	-191.0	565.0					13	
14													14	
15													15	
16													16	
17													17	

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