

HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA KILLIK RIVER STATE/COUNTY ALASKA BOOK NO. _____ PAGE 1 OF _____
 LINE/LOOP NO. 766 TYPE SURVEY _____ CLIENT HUSKY DATE 5 BY 12 MO 79 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		LR 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	○	601							1747.7			1	LINE 743.	
2												2	RL: PAGE 12 LN 743	
3												3		
4	Δ		880		73-00	11.7	+ 57.7	1805.4				4		
5	CK		✓		267-10	14.2	+ 57.6					5	W	
6		743/766			-	5.4			1800.0			6	IRON-PIPE.	
7												7		
8		743-SP. 603										8		
9		766-SP. 585										9		
10												10		
11		584	440		83-20	3.8	+ 46.9	1852.3				11	N	
12		583	880		83-00	7.2	+ 99.2	1904.6				12		
13		582	1320		82-50	3.3	+ 160.1	1965.5				13	1973.1	
14	○	TPI	1370		82-40	7.6	+ 165.8	1971.2				14	TP. 1.	
15	CK		✓		277-30	71.6	+ 165.7					15	582-50	
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

GSI AREA KILLIK RIVER STATE/COUNTY AK. BOOK NO. _____ PAGE 2 OF _____
 LINE/LOOP NO. 766 TYPE SURVEY _____ CLIENT HUSKY DATE 6 DY 12 MO 79 YR
 SURVEYOR C. 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			RIGHT TURNED HORIZONTAL ANGLE	LINE
				SLOPE 					HORIZ 	INST			
1									1971.2		1	TP. 1.	
2											2		
3			030		03-10	+ 6.1	- 92.0	1879.2	1880.0		3		
4			✓		276-30	+ 7.3	- 92.1				4		
5		581	440		273-30	+ 3.5	+ 23.3		1902.5	1903.4	S	5	
6		580	0		-	+ 5.3			1873.9	1874.7	-	6	
7		579.	440		74-05	+ 10.2	- 41.4		1837.8	1838.5	N	7	
8		578.	000		93-30	+ 11.4	- 65.0		1814.2	1814.9		8	
9		577.	1320		93-05	+ 8.5	- 77.5		1801.7	1802.5		9	SMALL CRK.
10		576.	1760		91-30	+ 13.4	- 59.5		1819.7	1820.6		10	
11		575.	2205		91-05	+ 7.5	- 45.9		1833.3	1834.2		11	
12		574	2640		90-20	+ 14.7	- 30.3		1848.9	1849.9		12	1851.0
13			✓		269-30	+ 7.3	- 30.3					13	
14												14	
15												15	
16												16	
17												17	

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

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

HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA _____ STATE/COUNTY AK BOOK NO. _____ PAGE 3 OF _____

LINE/LOOP NO. 766 TYPE SURVEY _____ CLIENT HUSKY DATE 6 BY 12 MO 79 YR

SURVEYOR L. LYMAN INSTRUMENT DESC/SERIAL NO. _____ CREW NO. 1126

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		574							1848.9			1		
2			715		-	+6.2	+6.2	1855.1			1856.1	2		
3			✓		270-30	72.5	+6.3					3		
4		573	275		-	70.0			1844.3		1845.3 S.	4		
5			90		-	5.2			1849.9		1850.9 -	5		
6		572	165		-	75.0			1840.1		1841.1 N.	6		
7		571	605		93-00	8.5	-40.1		1815.0		1815.9	7		
8		570	1045		92-20	11.0	-53.5		1801.6		1802.6	8		
9		569	1485		92-00	10.7	-62.5		1792.6		1793.6	9		
10		568	1925		92-00	4.9	-72.0		1783.1		1784.1	10		
11		567	2365		91-40	70.6	-79.4		1775.7		1776.8	11		
12			✓		260-24	13.4	-79.4				1778.5	12		
13												13		
14												14		
15												15		
16												16		
17												17		

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

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

HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA KILLIK RIVER STATE/COUNTY AK BOOK NO. _____ PAGE 4 OF _____
 LINE/LOOP NO. 766 TYPE SURVEY _____ CLIENT HUSKY DATE 6 DY 12 MO 79 YR
 SURVEYOR L. LITMAN 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		567							1775.7			1		
2			2640		09-02	+13.3	-31.2	3.1	1744.6		1745.5	2		
3			✓		270-50-40	+14.0	-31.0					3		
4		566	2200		271-00	+14.2	+24.2		1768.8		1769.6	4		
5		565	1760		270-30	8.5	+6.9		1751.5		1752.3	5		
6		564	1320		270-30	10.0	+0.7		1745.3		1746.2	6		
7		563	800		-	4.3			1740.3		1741.2	7		
8		562	440		-	3.1			1739.5		1740.4	8		
9		561	0		-	2.0			1738.6		1739.5	9		
10		560	440		-	9.0			1734.8		1735.7	10		
11		559	800		90-30	10.1	-17.8		1726.8		1727.7	11		
12		558	1320		-	5.4			1739.2		1740.1	12		
13		557	1760		09-40	16.0	+3.4		1747.9		1748.9	13	1751.1	
14			✓		270-30	12.2	+3.2	3.3				14		
15												15		
16												16		
17												17		

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

HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA KILLIK RIVER STATE/COUNTY AK. BOOK NO. _____ PAGE 5. OF _____
 LINE/LOOP NO. 766 TYPE SURVEY _____ CLIENT HUSKY. DATE 6 DY 12 MO 79 YR
 SURVEYOR L. LYMAN. INSTRUMENT DESC/SERIAL NO. _____ CREW NO. 1186

LINE	<input type="checkbox"/> Δ <input type="checkbox"/> \uparrow <input type="checkbox"/> SS <input type="checkbox"/> \odot	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	\odot	557.								1747.9			1		
2	Δ		1320			3.9	+ 3.9	+ 1752.0			1752.9		2		
3	CK		✓			11.9	+ 4.2						3		
4		556.	880			2.2				1745.8	1746.7		4		
5		555	440			3.9				1748.1	1749.0 S.		5		
6		554.	0			5.3				1746.7	1747.6 -		6		
7		553.	440			11.6				1740.4	1741.3 N.		7		
8		552.	880			2.3				1745.7	1746.6		8		
9	\odot	551.	1320			7.4	- 7.4			1744.4			9		
10	CK		✓			11.5	- 7.7				1745.4	1748	10		
11	Δ		1320			88-40	+ 2.0	- 23.9	1720.6		1721.5		11		
12	CK		✓			271-30	+ 10.8	- 23.7					12		
13		550	880			271-00	5.6	+ 9.8		1730.4	1731.3		13		
14		549.	440			271-00	26.1	+ 1.6		1722.2	1723.1 S.		14		
15		548.	0				5.2			1715.4	1716.3 -		15		
16		547	440				10.5			1710.1	1711.0 N.		16		
17													17		

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

SYMBOLS

Δ = BACKSIGHT

\uparrow = INSTRUMENT SET-UP

SS = SIDESHOT

\odot = FORESIGHT

HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA KILLIK RIVER STATE/COUNTY AK BOOK NO. _____ PAGE 6 OF _____
 LINE/LOOP NO. 766 TYPE SURVEY _____ CLIENT HUSKY DATE 9 BY 12 MO 79 YR
 SURVEYOR L. LYMAN INSTRUMENT DESC/SERIAL NO. _____ CREW NO. 1186

LINE	 	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 										
1									1720.6			1		
2		546	880		7.5				1713.1		1714.0 N	2		
3		545	1320	89-30	5.6	+ 4.9			1725.5		1729.4	3	TP. 2.	
4			✓	270-40	10.6	+ 4.8					1726.4	4	(REBAR.)	
5												5	AT. IT.	
6			1760	89-00	3.6	- 27.1		1698.6			1699.4	6		
7			✓	271-10	9.1	- 26.7						7		
8		544	1320	271-00	9.0	+ 14.0			1712.6		1713.4	8		
9		543	880	271-00	11.2	+ 4.2			1702.8		1703.6	9		
10		542	440	271-00	8.0	- 0.3			1698.3		1699.1 S	10		
11		541	0	-	5.2				1693.4		1694.2 -	11		
12		540	440	-	9.7				1688.9		1689.7 N	12		
13		539	880	70-30	8.6	- 16.3			1682.3		1683.1	13		
14		538	1320	90-30	10.2	- 21.7			1676.9		1677.7	14		
15		537	1760	90-20	14.6	- 24.8			1673.5		1677.8	15		
16			✓	269-37.5	14.0	- 25.3					1674.4	16		
17												17		

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

HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA _____ STATE/COUNTY AK. BOOK NO. _____ PAGE 7 OF _____
 LINE/LOOP NO. 766 TYPE SURVEY _____ CLIENT HUSKY DATE 8 BY 12 MO 77 YR
 SURVEYOR L. LYMAN INSTRUMENT DESC/SERIAL NO. _____ CREW NO. 1186

LINE	 	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 										
1		537							1673.5			1		
2			22.00		29.05	13.4	-25.0	24.9	1648.6		1699.4	2		
3	CK		✓		271-00-33	14.0	-24.7					3		
4		536	1760		271-05	12.0	+12.7		1667.3		1668.1	4		
5		535	1320		271-05	9.2	+13.8		1662.4		1663.2	5		
6		534	880		271-05	8.5	+6.9		1655.5		1656.3	6		
7		533	440		271-05	8.0	+1.7		1650.3		1651.1 S.	7		
8		532	0		-	8.2			1643.4		1644.2 -	8		
9		531	440		90-40	7.1	-12.2		1636.4		1637.2 N.	9		
10		530	880		90-40	8.3	-12.5		1630.0		1630.9	10	34.6	
11	CK		✓		269-30	10.9	-18.6	✓				11		
12			1760		88-50	14.6	-21.2	20.9	1609.1		1609.9	12		
13	CK		✓		271-09-32	15.0	-20.6					13		
14		529	1320		271-05	9.8	+13.2		1622.3		1623.1	14		
15		528	880		271-05	8.2	+6.6		1615.7		1616.5	15		
16		527	440		271-05	8.2	-0.5		1608.6		1609.1 S.	16		
17		526	0		-	6.0					1603.9 -	17		

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

HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA KILLIK RIVER STATE/COUNTY AK BOOK NO. _____ PAGE 2 OF _____
 LINE/LOOP NO. 766 TYPE SURVEY _____ CLIENT HUSKY DATE 6 BY 12 MO 79 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															
2		525.	440		92-00	10.6	- 25.9		1609.1		1584.0 N	2	CRK.		
3		524.	000		-	2.0			1607.1		1607.9	3			
4		523.	1320		89-20	5.3	+ 10.1		1619.2		1620.0	4			
5		522.	1760		89-00	2.4	+ 24.3		1633.4		1634.2	5			
6		521.	2200		88-40	10.8	+ 40.4		1649.5		1650.3	6			
7		520	2640		88-30	14.3	+ 54.8 +		1663.7		1664.70	7	1669.1		
8			✓		271-22	8.5	+ 54.4 ^{54.6}					8			
9			000		70-40	13.4	+ 29.6 +	1687.4				9			
10			✓		269-10	11.0	+ 23.8 ^{23.8}				1688.4	10			
11		519.	440		-	9.4			1678.0		1679.0 S	11			
12		518.	0		-	5.8			1681.6		1682.6 -	12			
13		517.	440		-	5.5			1681.9		1682.9 N.	13			
14		516.	000		-	5.2			1682.2		1683.2	14			
15		514, 515.	1320		-	4.4			1683.0		1684.0	15			
16												16			
17												17			

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

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HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA KILLIK RIVER STATE/COUNTY AK. BOOK NO. _____ PAGE 9. OF _____
 LINE/LOOP NO. 766 TYPE SURVEY _____ CLIENT HUSKY DATE 2 DY 12 MO 79 YR.
 SURVEYOR L. LYMAN INSTRUMENT DESC/SERIAL NO. _____ CREW NO. 1184

LINE	 	STATION	VERTICAL						ELEVATION		LR 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 										
1														
2		513 514.	1760		-	3.6				1687.4				
3		512 513.	2200		27-50	2.7		- 2.5		1683.7		1684.9	✓	
4	○	BM. 78 265	2586		29-50	10.2		- 2.7		1684.9		1685.9		
5	CK	1P2	✓		270-14-20	14.0		- 3.2		1684.5		1685.6		
6										1690.7		1690.7		
7										6.2		5.1 TIE.		
8														
9														
10	Δ		1214		27-40	12.2		+ 1.6		1692.2				
11	CK		✓		270-10	6.7		+ 1.4	1.5					
12		512	1760		270-10	6.7		- 1.6		1690.6				
13		511	1320		-	2.7				1689.5				
14		510	880		-	4.2				1688.0				
15		509	440		-	4.8				1687.4			S	
16		508	0		-	5.6				1686.6			-	
17		507	440		-	9.0				1683.2			N	

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

HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA KILLIK RIVER STATE/COUNTY AK BOOK NO. _____ PAGE 10 OF _____
 LINE/LOOP NO. 766 TYPE SURVEY _____ CLIENT HUSKY DATE 8 DY 12 MO 79 YR
 SURVEYOR L. UMAN INSTRUMENT DESC/SERIAL NO. _____ CREW NO. 1186

LINE	 	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										
1														
2		506.	000		90-13-23	2.0	- 9.4		1692.2					
3		5+5.	1320		90-16-30	2.0	- 12.3							
4		504.	1760		90-14-10	2.0	- 12.3							LAST SP.
5			✓		270-00-00	14.0	- 14.0	13.6						To NORTH.
6														LINE 766.
7														
8														
9														
10														
11														
12														
13														
14														
15														
16														
17														

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

HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA KILLIK RIVER STATE/COUNTY AK. BOOK NO. _____ PAGE 11 OF _____
 LINE/LOOP NO. 766 TYPE SURVEY _____ CLIENT HUSKY DATE 7 DY 1 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			UR OR DI	RIGHT TURNED HORIZONTAL ANGLE	LINE
				SLOPE 	HORIZ 						INST				
1	⊙	± 766 / 743								1800.0		RE: PAGE 1	1	IRON - PIPE	
2		743 - SP. 603										1.	2		
3		766 - SP. 585											3		
4													4		
5	Δ		2200			92.20	+10.4	+99.9	7	1899.7			5		
6	CK		✓			267-30	3.6	+99.5					6		
7		604 586	1760			266-30	6.0	-113.2		1786.5			7		
8		602 587	1320			266-00	2.8	-98.7		1801.0			8		
9		603 588	880			266-00	12.0	-73.2		1826.5			9		
10		604 589	440			266-00	8.6	-39.2		1860.5			10		
11		605 590	0			-	5.3			1894.4			11		
12		606 591	440			07-00	5.0	+18.0		1917.7			12		
13		607 592	880			07-00	1.5	+44.5		1944.2			13		
14	⊙	TP. 3	1300			86-40	7.9	+67.6		1967.3		1966.8	14		
15	CK					273-30	11.5	+67.7					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 KILLIK RIVER STATE/COUNTY AK BOOK NO. _____ PAGE 12 OF _____
 LINE/LOOP NO. 766 TYPE SURVEY _____ CLIENT HUSKY DATE 7 DY 1 MO 10 YR
 SURVEYOR L. LYMAN INSTRUMENT DESC/SERIAL NO. _____ CREW NO. 1196

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	⊙	TP.											1	
2	△		470		00-30	+7.1	-5.2	1962.1	1967.3				2	
3	⊙		✓		271-40	+9.4	-5.3						3	
4		608 593	440		271-40	+7.1	+5.7		1967.8				4	N
5		609 594	0		-	5.2			1956.9				5	-
6		610 595	440		92-20	5.2	-23.1		1939.0				6	S
7		611 596	000		92-20	5.3	-41.1		1921.0				7	✓
8		612 597	1320		92-20	6.0	-59.7		1902.4				8	
9	⊙	613 598	1760		92-20	12.5	-84.1	1840	1878.1		1876.6		9	
10	⊙		✓		267-43-26	14.0	-83.8						10	
11	△		1740		00-30	+2.3	-43.2	1824.7					11	
12	⊙		✓		271-40	+7.0	-43.6						12	
13		614 599	1320		-	14.9			1819.8				13	MEANDERING
14		615 600	880		267-40	12.7	-17.8		1816.9				14	CREEK
15		616 601	440		-	12.6			1822.1				15	N
16		617 602	0		-	5.2			1829.5				16	-
17		618 603	440		-	8.0			1826.7				17	S

WORKED BY L.O.L. CHECKED BY 1ST _____ 2ND _____
 SYMBOLS △ = BACKSIGHT ⊠ = INSTRUMENT SET-UP SS = SIDESHOT ⊙ = FORESIGHT

HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA KILLIK RIVER STATE/COUNTY AK BOOK NO. _____ PAGE 13 OF _____
 LINE/LOOP NO. 766 TYPE SURVEY _____ CLIENT HUSKY DATE 7 BY 1 MO 70 YR
 SURVEYOR L. LYMAN INSTRUMENT DESC/SERIAL NO. _____ CREW NO. 1196

LINE	 	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 										
1										1834.7			1	
2		619. 604.	880		89-50	4.1	-1.5			1893.2		5.	2	
3		620. 605	1320		88-30	6.4	+28.1			1862.8			3	
4		TR 4	1600		88-20	3.8	+42.7			1877.6		1875.1	4	
5			✓		271-50	8.1	+43.1						5	
6			1920		90-30	12.3	+29.1		28.2	1906.4			6	
7			✓		269-20	6.3	+28.6						7	
8		621. 606	1760		269-20	73.3	-33.8			1872.6			8	
9		622. 607	1320		218-05	12.3	-58.3			1848.1			9	
10		623. 608	880		269-00	7.0	-39.7			1866.7			10	
11		624. 609	440		269-00	12.3	-20.0			1886.4			11	N
12		625. 610	0		-	5.3				1901.1			12	-
13		626. 611	440		-	7.6				1898.8		5.	13	
14		627. 612	880		-	4.8				1901.6			14	
15		628. 613	1320		89-30	71.0	+0.5			1906.9			15	
16		629. 614	1760		89-20	6.3	+14.2			1920.6			16	
17													17	

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SYMBOLS

= BACKSIGHT

= INSTRUMENT SET-UP

= SIDESHOT

= FORESIGHT

HORIZONTAL AND VERTICAL SURVEY NOTES

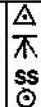







GSI AREA _____ STATE/COUNTY AK. BOOK NO. _____ PAGE 14 OF _____
 LINE/LOOP NO. 766 TYPE SURVEY _____ CLIENT HUSKY DATE 7 DY 1 MO 80 YR
 SURVEYOR L. LYMAN. INSTRUMENT DESC/SERIAL NO. _____ CREW NO. 1186





LINE	 	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	
1														
2		630. 615	2200		89-20	4.3	+ 21.3		1902.4			1927.9	1929.3 S.	2
3			✓		270-50	10.3	+ 21.7							3
4			1760		90-40	16.0	+ 26.5		1954.2					4
5			✓		269-30	10.7	+ 26.1							5
6		631. 616	1320		269-00	9.3	- 32.3					1921.9		6
7		632. 617	880		269-00	72.1	- 27.5					1926.7		7
8		633. 618	440		269-00	9.7	- 17.4					1936.8		8
9		634. 619	0		-	5.3						1948.9		9
10		635. 620	440		86-30	8.4	+ 18.4					1978.6		10
11		636. 621	880		86-30	7.6	+ 46.0					2000.2		11
12		637. 622	1320		86-00	3.0	+ 88.9					2043.1	2062.0	12
13		TP5	1500		85-20	9.9	+ 111.7					2066.0	2066.6	13
14			✓		274-50	14.0	+ 111.9							14
15														15
16														16
17														17

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

HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA KILLIK RIVER STATE/COUNTY AK BOOK NO. _____ PAGE 15 OF _____
 LINE/LOOP NO. 766 TYPE SURVEY _____ CLIENT HUSKY DATE 7 DY 1 MO 10 YR
 SURVEYOR L. LYMAN INSTRUMENT DESC/SERIAL NO. _____ CREW NO. 1186

LINE		STATION	VERTICAL						ELEVATION		LR OR DR	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											2066.0			1	
2			1160		93-05	78.2	+ 68.8	2134.7			2135.4			2	
3					267-10	11.3	+ 69.6							3	
4		637. 623	880		267-10	11.7	- 55.1				2079.6	2080.1		4	
5		639. 624	440		267-10	11.6	- 33.3				2101.4	2002.0		5	
6		640. 625	0			8.2					2129.5	2130.1		6	
7		641. 626	440		97-05	7.9	+ 16.2				2150.9	2151.5	S.	7	
8		642. 627	880		95-10	8.3	+ 69.6				2203.3	2203.9		8	
9		BM. 80080	990		84-30	14.5	+ 70.0				2224.9			9	
10					275-40	7.1	+ 90.2					2225.9		10	
11											2220.7			11	
12											+ 4.1	VERTICAL		12	
13												TIE		13	
14														14	
15														15	
16														16	
17														17	

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

HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA _____ STATE/COUNTY AK. BOOK NO. _____ PAGE 16 OF _____
 LINE/LOOP NO. 766 TYPE SURVEY _____ CLIENT HUSKY DATE 2 DY 1 MO 80 YR
 SURVEYOR L. LYMAN INSTRUMENT DESC/SERIAL NO. _____ CREW NO. 1186

LINE		STATION	VERTICAL						ELEVATION		LIP 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		BM. 80080								2220.7			1		
2													2		
3			1225		92-00	+2.4	-166.4	2054.3			2052.5		3		
4			✓		276-10	+5.8	-166.5						4		
5		628	880		275-00	5.0	+71.4			2125.7	2124.2		5		
6		629	440		273-00	7.4	+21.6			2075.9	2174.1	N	6		
7		630	0		-	5.3				2049.0	2047.2	-	7		
8		631	440		-	7.0				2047.3	2026.5	S.	8		
9		632	880		89-20	7.5	+0.7			2055.0	2053.2		9		
10		633	1320		89-20	5.5	+9.9			2064.2	202.4		10		
11		634	1760		89-00	8.4	+22.3			2076.6	2079.8		11		
12		635	2200		88-40	12.7	+38.5			2093.0	2091.4		12		
13			✓		271-10	3.8	+39.0	21.2					13		
14													14		
15													15		
16													16		
17													17		

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

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HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA KILLIK RIVER STATE/COUNTY AK BOOK NO. _____ PAGE 17 OF _____
 LINE/LOOP NO. 766 TYPE SURVEY _____ CLIENT HUSKY DATE 9 DY 1 MO 80 YR
 SURVEYOR L. CTMAN 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		LR OR DI		RIGHT TURNED HORIZONTAL ANGLE	LINE
				SLOPE					HORIZ	INST				
1		635							2093.0			1		
2			440		93-00	8.3	+ 31.3	2124.3			2122.40	2		
3			✓		267-40	13.3	+ 31.2					3		
4		636	0		-	5.4			2118.9		2117.2	4		
5		637	440		85-30	5.0	+ 29.4	2153.7			2152.2	5		
6		638	880		83-40	9.0	+ 87.5	2211.8	✓		2210.7	6		
7		(TP 1)	1150		81-30	8.8	+ 157.3	2283.6			2283.9	7		
8			✓		278-40	12.0	+ 159.3					8		
9			1020		92-00	13.2	+ 48.8	2332.3			2332.6	9		
10			✓		267-40	7.1	+ 48.6					10		
11		639	840		266-30	8.0	- 59.2	2273.1			2273.3	11		
12		640	400		264-00	6.5	- 48.1	2284.2			2284.3	12		
13		(TP 2)	0		-	5.9		2326.4			2326.7	13		
14												14	OLD IRON	
15		L-R-6	1720		95-00	11.4	- 160.7	2171.8			SE	15	PIPE	
16		SP. 106	✓		264-50	6.1	- 160.4	2165.0			SURVEY	16	DATA 1978	
17								2165.0			THE	17		

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

HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA KILLIK RIVER STATE/COUNTY AK BOOK NO. _____ PAGE 18 OF _____
 LINE/LOOP NO. 766 TYPE SURVEY _____ CLIENT HUSKY DATE 8 DY 1 MO 80 YR
 SURVEYOR L. LYMAN INSTRUMENT DESC/SERIAL NO. _____ CREW NO. 1196

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
1													1		
2		.641	40		7.4	- 9.4		2323.0		2323.3		2			
3			✓	275-30	73.0	- 9.2						3			
4			2560	87-40	78.1	- 96.0	2226.7		2226.8		4				
5			✓	272-30	75.0	- 96.6					5				
6		.642	2150	270-40	76.4	+ 18.6		2245.3	2245.3		6				
7		.643	1710	269-00	71.1	- 40.9		2185.8			7	SIDE - HILL			
8		.644	1270	266-00	74.3	- 102.7		2124.0			8				
9		.645	830	264-30	71.6	- 90.8		2135.9			9				
10		.646	590	263-00	72.7	- 59.9		2166.8			10				
11		<u>(RP 3)</u>	0	-	73.2			2221.5			11				
12		.647	50	-	73.4			2221.3			12				
13		.648	490	93-00	73.6	- 39.2		2197.5			13				
14		.649	930	91-40	79.8	- 36.8		2189.9			14				
15		.650	1270	90-30	72.8	- 24.8		2202.1	2202.2		15				
16		✓	✓	269-10	74.5	- 24.4					16				
17											17				

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

HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA _____ STATE/COUNTY AK BOOK NO. _____ PAGE 17 OF _____
 LINE/LOOP NO. 766 TYPE SURVEY _____ CLIENT HUSKY DATE 8 DY 1 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 DI		RIGHT TURNED HORIZONTAL ANGLE	LINE
				SLOPE 					HORIZ 	INST				
1		650							2202.1			1		
2			440		92-00	79.6	+ 24.9	2227.0			2227.1	2		
3	CK		✓		268-30	73.4	+ 24.9					3		
4		651	0		-	5.3			2221.7			4		
5		652	440		-	7.9			2232.1			5		
6		653	880		89-40	7.3	+ 8.1		2235.1		2235.2	6		
7		654	1320		88-20	9.7	+ 28.7		2255.7			7		
8		655	1760		89-20	10.3	+ 40.9		2267.9			8		
9		(194)	1925		88-20	13.5	+ 42.5		2269.6		2269.3	9		
10	CK		✓		271-30	7.6	+ 42.8					10		
11			1595		91-30	14.2	+ 55.9	2325.4			2325.6	11		
12	CK		✓		268-20	9.2	+ 55.6					12		
13		656	1320		268-00	8.3	- 54.3		2271.1			13		
14		657	880		268-00	78.6	- 44.3		2291.1		2281.3	14		
15		658	440		268-00	12.1	- 27.4		2298.0			15		
16		659	0		-	5.3			2320.1			16		
17		660	440		86-40	5.9	+ 19.6		2345.0			17		

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

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

HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA KILLIK RIVER STATE/COUNTY AK BOOK NO. _____ PAGE 20 OF _____
 LINE/LOOP NO. 766 TYPE SURVEY _____ CLIENT HUSKY DATE 8 DY 1 MO 80 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 DI		RIGHT TURNED HORIZONTAL ANGLE	LINE
				SLOPE					HORIZ	INST				
1								2325.4				1		
2		661	890		86-40	3.2	+ 47.9		2373.3			5	2	
3		662	1320		86-00	7.9	+ 85.1		2410.5				3	
4		663	1760		85-20	11.5	+ 131.2		2456.6				4	
5		664	2200		85-00	2.1	+ 184.9		2510.4		2511.4		5	
6			✓		275-10	12.3	+ 185.0						6	
7			980		96-40	12.4	+ 114.1	2624.5			2626.1		7	
8			✓		263-26-05	14.0	+ 114.0				2620.8		8	
9		665	440		263-30	6.1	- 55.6		2568.9		2570.2		9	
10		666	0		-	5.3			2619.2		2620.8		10	
11		TP-5	275		87-00	3.1	+ 11.3		2635.8		2637.4		11	
12			✓		273-40	6.2	+ 11.4						12	
13													13	
14													14	
15													15	
16													16	
17													17	

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

HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA KILLIK RIVER STATE/COUNTY AK BOOK NO. _____ PAGE 21 OF _____
 LINE/LOOP NO. 766 TYPE SURVEY _____ CLIENT HUSKY DATE 7 DY 1 MO 10 YR
 SURVEYOR L. LYMAN INSTRUMENT DESC/SERIAL NO. _____ CREW NO. 1186

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 D/I	RIGHT TURNED HORIZONTAL ANGLE	LINE
				▲ SLOPE	▲ HORIZ					▲	▲				
1	⊙	TP.								2635.8			1		
2													2		
3	△		330			-	+6.0	+6.0	2441.8		2643.4		3		
4	CK		✓			270-30	18.9	+5.9					4		
5		667	165			-	7.9			2633.9	2635.5	N	5		
6		TP 6	0			-	5.3			2636.5		-	6		
7	⊙	668	275			93-00	12.7	-27.1	260	2614.8	2616.4	S	7		
8	CK		✓			265-30	5.4	-21.9					8		
9	△		1760			86-00	12.0	-117.7	2494.7		2496.1		9		
10	CK		✓			274-16	77.5	-120.0					10		
11		669	1320			271-30	7.1	+28.4		2523.3	2524.5		11		
12		670	890			-	14.1			2480.8	2482.0		12		
13		671	440			269-20	12.2	-17.3		2477.6	2478.8	N	13		
14		672	0			-	5.2			2489.7	2490.9	-	14		
15		673	440			87-30	4.6	+14.6		2509.5	2510.7	S	15		
16													16		
17													17		

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

HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA _____ STATE/COUNTY AK. BOOK NO. _____ PAGE 22 OF _____
 LINE/LOOP NO. 766 TYPE SURVEY _____ CLIENT HUSKY DATE 9 DY 1 MO 90 YR
 SURVEYOR L. LTMAN INSTRUMENT DESC/SERIAL NO. _____ CREW NO. HP.

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				
1										2494.9			1	
2		674	880		87-30	4.1		+ 24.2		2529.1		2530.45	2	
3		675	1320		87-30	3.6		+ 51.9		2546.8		2548.1	3	
4		676	1760		87-30	4.7		+ 72.0		2567.0		2568.4	4	
5			✓		272-40	9.5		+ 72.3					5	
6			2640		94-20	11.6		+ 210.5		2777.4		2779.2	6	
7			✓		225-43-32	14.0		+ 210.2	23.5				7	
8		677	2200		265-20	3.6		- 184.0		2593.4		2594.5	8	
9		678	1760		265-00	5.5		- 158.3		2619.1		2620.2	9	
10		679	1320		264-40	10.0		- 132.2		2645.2		2646.5	10	
11		680	800		264-00	8.6		- 100.1	✓	2677.3	✓	2678.0	11	
12		681	440		264-00	12.9		- 58.5		2718.9		2720.4	12	
13		682	0		-	3.3				2772.1		2773.9	13	
14		683	440		86-30	3.3		+ 23.5	23.6	2800.9		2802.8	14	S.
15			✓		274-00	7.1		+ 23.5					15	
16									23.6				16	
17													17	











TT-23471B

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

HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA KILLIK RIVER STATE/COUNTY AK BOOK NO. _____ PAGE 23 OF _____
 LINE/LOOP NO. 766 TYPE SURVEY _____ CLIENT HUSKY DATE 9 DY 1 MO 80 YR
 SURVEYOR L. LYMAN INSTRUMENT DESC/SERIAL NO. _____ CREW NO. 1186

LINE		STATION	VERTICAL						ELEVATION		L/R OR DJI	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		683											1		
2			980			90-37-43	+14.0	+23.7	2224.5		2826.3		2		
3			✓			269-26-36	+15.0	+23.5					3		
4		684	440			-	7.5			2817.0	2818.9		4		
5		TP	320			-	4.7			2819.8	2821.6	✓	5	TP	
6		685	0			-	5.3			2819.2	2821.0	-	6		
7		685-686	440			91-05	14.3	-22.0		2802.5	2804.9	S	7		
8		686-687	880			91-05	7.3	-22.7		2801.8	2803.7		8		
9		687-688	1320			-	5.8			2818.7	2820.6		9		
10		688-689	1760			89-40	2.3	+3.9		2828.5	2830.5		10	TP	
11			✓ 1760			270-30	11.2	+4.2					11		
12			2205			86-20	14.1						12		
13			✓			273-30	8.8						13		
14		TP	1705			273-30	7.0						14	TP	
15		689-690	1320			273-30	13.0						15		
16		690-691	880			272-20	4.7						16		
17		692	440			272-20	8.3						17		

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

HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA KILLIK RIVER STATE/COUNTY AK BOOK NO. _____ PAGE 24 OF _____
 LINE/LOOP NO. 766 TYPE SURVEY _____ CLIENT HUSKY DATE 10 DY 1 MO 80 YR
 SURVEYOR L. LYMAN INSTRUMENT DESC/SERIAL NO. _____ CREW NO. 1186

LINE		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 										
1		689								2828.5			1	
2			2640		27-00	711.3	-126.7	2701.6			2703.2		2	
3			✓		273-04-05	714.0	-127.1						3	
4		TP 1	2585		273-00	7.9	+125.3			2826.9	2828.6		4	
5		690	2200		272-30	7.5	+89.4			2791.0	2792.6		5	
6		691	1760		272-00	5.0	+56.4			2758.0	2759.6		6	
7		692	1320		271-20	7.1	+26.6			2728.2	2729.8		7	
8		693	800		271-00	7.0	+8.6			2710.2	2711.8		8	
9		694	440		-	7.9				2693.9	2695.5 N		9	
10		695	0		-	5.3				2696.3	2697.9 -		10	
11		696	440		95-00	72.3	-50.5			2651.1	2652.7 S		11	
12		697	800		92-30	73.1	-51.4			2650.2	2651.8		12	
13		698	1320		91-30	7.0	-41.5			2660.1	2661.7		13	
14		TP (TP 7)	1710		90-50	70.5	-35.4			2666.3			14	
15			✓		269-17-20	74.0	-35.2				2668.0		15	
16													16	
17													17	

TI-234716

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

HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA _____ STATE/COUNTY AK. BOOK NO. _____ PAGE 25 OF _____
 LINE/LOOP NO. 766 TYPE SURVEY _____ CLIENT HUSKY. DATE 10 DY 1 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		LR OR DI		RIGHT TURNED HORIZONTAL ANGLE	LINE
				SLOPE 					HORIZ 	INST				
1	⊙	TP.							2666.3			1		
2	Δ		1370		88-30	79.0	- 26.9	2639.5			2641.2	2		
3	Δ		✓		271-40	513.1	- 26.7					3		
4		699	1320		271-40	72.3	+ 26.1		2665.6		2667.3	4		
5		700	880		271-40	70.8	+ 14.8		2654.3		2656.0	5		
6		701	440		271-40	5.2	+ 7.6		2647.1		2648.8 N	6		
7		702	0		-	3.9			2633.6		2635.3 -	7		
8		703	440		94-40	74.1	- 49.8		2589.7		2591.4 S	8		
9		704	880		93-30	71.0	- 64.6		2574.9		2576.6	9		
10		705	1320		93-30	8.1	- 88.5		2551.0		2552.7	10		
11		706	1760		93-10	72.5	- 109.6		2529.9		2531.6	11		
12	⊙	707	2250		93-10	7.9	- 131.2		2508.3			12		
13	Δ		✓		266-56-30	74.0	- 131.2				2509.9	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

GSI AREA KILLIK RIVER STATE/COUNTY AK BOOK NO. _____ PAGE 26 OF _____
 LINE/LOOP NO. 766 TYPE SURVEY _____ CLIENT HJOKY DATE 10 DY 1 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"/> \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	LINE	
				SLOPE					HORIZ	INST					ROD
1	\odot	707										2508.3		1	
2	Δ		.1740			87-20	73.1	- 69.7		2439.5		2441.0		2	
3	Δ		✓			272-30	7.8	- 68.9						3	
4		708	.1320			272-30	7.7	+ 49.8				2489.3	2490.8	4	
5		709	.880			272-30	7.6	+ 31.7				2471.2	2472.7	5	
6		710	.440			272-30	7.3	+ 8.9				2448.4	2449.9 N	6	
7		711	0			-	5.3					2434.2	2435.7	7	
8		712	.440			92-30	70.2	- 29.4				2410.1	2411.6 S	8	
9		713	.880			91-20	73.8	- 34.3				2405.2	2406.8	9	
10		714	.1320			91-00	72.5	- 35.5				2404.0	2405.5	10	
11		715	.1760			91-00	7.2	- 37.9				2401.6	2403.1	11	
12	\odot	716	.2200			90-30	74.0	- 33.2				2401.3		12	
13	Δ		✓			269-30	74.0	- 33.2					2407.9	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 \odot = FORESIGHT

HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA _____ STATE/COUNTY AK. BOOK NO. _____ PAGE 27 OF _____
 LINE/LOOP NO. 766. TYPE SURVEY _____ CLIENT HUSKY. DATE 10 DY 1 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		LR OR DR		RIGHT TURNED HORIZONTAL ANGLE
				SLOPE					HORIZ	INST			
1	⊙	716.							2406.3			1	
2	Δ		2250		96.02-49	74.0	+15.8	2422.0			2423.4	2	
3	⊙		✓		269.50	79.2	+15.6					3	
4		717.	1760		-	74.0			2408.0		2409.5	4	
5		718.	1320		-	73.1			2408.9		2410.4	5	
6		719.	880		-	70.1			2411.9		2413.4	6	
7		720.	440		-	72			2414.8		2416.3 N	7	
8		721.	0		-	73.3			2416.7		2418.1	8	
9		722.	440		-	72.5			2419.5		2421.0 S.	9	
10		723.	880		89.30	72.6	-0.1	2421.9			2423.3	10	
11		724.	1320		89.30	72.4	+8.1	2425.1			2426.6	11	
12	⊙	725.	1760		89.20	72.8	+7.7	2429.7				12	
13	⊙		✓		270.30	72.2	+7.8				2431.2	13	
14												14	
15												15	
16												16	
17												17	

TI-28471B

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

HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA KILLIK RIVER STATE/COUNTY AK BOOK NO. _____ PAGE 28 OF _____
 LINE/LOOP NO. 766 TYPE SURVEY _____ CLIENT HUSKY DATE 10 DY 1 MO 80 YR
 SURVEYOR L. LYMAN INSTRUMENT DESC/SERIAL NO. _____ CREW NO. 1181

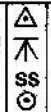


LINE	<input type="checkbox"/> Δ <input type="checkbox"/> SS <input type="checkbox"/> ⊙	STATION	VERTICAL						ELEVATION		L/R OR DJ	RIGHT TURNED HORIZONTAL ANGLE	LINE	REMARKS
			DISTANCE	<input type="checkbox"/> FEET <input type="checkbox"/> METERS	VERTICAL ANGLE OBS.	ROD RDG OR HI	ELEV DIFF	FINAL ELEVATION DIFF	INST	ROD				
			SLOPE 	HORIZ 										
1	⊙	725.							2427.7			1		
2	Δ		890			+11.6	+11.6	2441.3			2442.8	2		
3	CK		✓		269 - 50	9.0	+11.6					3		
4		726.	440		-	8.5			2432.8		2439.3	4	N	
5		727.	0		-	5.3			2436.0		2437.5	5	-	
6		728.	440		-	2.8			2438.5		2440.0	6	S	
7	⊙	S.M. 79358.	815		89 - 20	9.4	+0.1		2441.4			7		
8	CK		✓		271 - 00	74.1	+0.1		2442.3		2442.9	8		
9									-0.9		VERTICAL.	9	TIE.	
10									✓			10		
11	Δ		1390		90 - 10	13.0	+17.0	2459.2				11		
12	CK		✓		269 - 40	8.7	+16.8					12		
13		729.	1320		269 - 40	8.6	+16.3		2442.9			13		
14		730	880		-	73.2			2446.0			14		
15		731.	440		-	9.7			2449.5			15	N	
16		732.	0		-	5.3			2453.9			16	-	
17		733.	440		-	7.3			2457.9			17	S	

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

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

HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA KILLIK RIVER STATE/COUNTY AK BOOK NO. _____ PAGE 29 OF _____
 LINE/LOOP NO. 766 TYPE SURVEY _____ CLIENT HUSKY DATE 10 BY 1 MO 90 YR
 SURVEYOR L. LYMAN INSTRUMENT DESC/SERIAL NO. _____ CREW NO. 1186

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
															
1										2459.2			1		
2		734	000			89-20	7.8	+ 2.4		2461.6		S	2		
3		735	1320			87-20	70.7	+ 4.7		2463.9			3		
4	⊙	736	1760			89-10	74.4	+ 11.2		2470.4	✓		4		
5	CK		✓			270-40	7.4	+ 11.1	✓		✓		5		
6	Δ		000			90-20	72.8	+ 17.9		2489.3			6		
7	CK		✓			269-30	70.3	+ 18.0					7		
8		737	440			-	73.3			2475.0		N	8		
9		738	0			-	5.3			2483.0		-	9		
10		739	440			80-30	7.2	+ 2.3		2490.6		S	10		
11	⊙	740	880			89-30	71.0	+ 12.0		2500.4	✓		11		
12	CK		✓			271-20	7.2	+ 12.2			✓		12		
13	Δ		1760			93-20	72.9	+ 115.1		2615.4	✓		13		
14	CK		✓			266-30	7.7	+ 114.9					14		
15		741	1320			265-40	7.5	- 107.0		2508.4			15		
16		742	000			265-00	74.9	- 91.3		2524.1			16		
17		743	440			265-00	8.4	- 46.6		2568.8		N	17	Rock.	

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

HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA KILLIK RIVER STATE/COUNTY AK. BOOK NO. _____ PAGE 30 OF _____
 LINE/LOOP NO. 744 TYPE SURVEY _____ CLIENT MUSKY DATE 10 DY 1 MO 79 YR
 SURVEYOR L. LYMAN INSTRUMENT DESC/SERIAL NO. _____ CREW NO. 1186

LINE	 	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															
2		744	0			5.3			2615.4	2610.1					
3		745	440			2.0		+25.3		2640.6					EAST HOLE
4						9.2		+25.2							SOUTH
5															
6															
7															
8															
9															
10															
11															
12															
13															
14															
15															
16															
17															

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

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