



STADIA SURVEY NOTES.

AREA Wainwright STATE AK. PAGE No. 161  
 LINE No. D5XW PARTY No. 1182 DATE Day 10 Mo. 2 Yr. 1980 BOOK No. \_\_\_\_\_  
 SURVEYOR Perez RODMAN Wright WEATHER \_\_\_\_\_ P.T.S. No. \_\_\_\_\_



LINE	Bearing or Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING			Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	FINAL ELEVATIONS	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correction			Center Hair	INST.			
		5280		89° 41' 03"		11.4			-18.0	69.2	87.2				<u>See Note p. 160</u>
				270° 18' 35"		11.4						A	11		
		3960		89° 41' 00"		11.4			+10.8		80.0		10		
		2640		89° 34' 20"		11.4			+8.5		77.7		9		
		1320		89° 21' 20"		11.4			+3.5		72.7		8		
		0		90° 00' 00"		5.0			-5.0		64.2	I	7		
		1320		90° 09' 10"		11.4			-14.9		54.3		6		
		2640		90° 12' 30"		11.4			-20.9		48.4		5		
		3960		90° 21' 30"		11.4			-35.8		33.4		4		

WORKED BY Jacob Perez CHECKED BY John J. Wainwright 2nd \_\_\_\_\_

STADIA SURVEY NOTES

AREA Wainwright STATE AK. PAGE No. 163  
 LINE No. DSXW PARTY No. 1182 DATE Sun. Day 10 Mo. 9 Yr 1980 BOOK No. \_\_\_\_\_  
 SURVEYOR Perce RODMAN Wright WEATHER Windy -23° P.T.S. No. \_\_\_\_\_



LINE	Bearing or Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING			Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	FINAL ELEVATIONS	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correction			Center Hair	INST.			
		292		90°00'00"		3.8			+3.8	92.3	88.5	A	80331	88.49	
				270°05'00"		3.6						A			
		0		90°00'00"		5.0			-5.0		87.3	I	177731		
		589		89°16'30"		11.4			-3.9		88.4		18		
		1909		90°00'40"		11.4			-11.7		80.6		19		
		5329		90°00'46"		11.4			-11.8		80.5		20		
		4549		90°01'10"		11.4			-12.5		79.8		21		
		5869		90°01'20"		11.4			-13.0		79.3		22		
		7189		89°56'53"		11.4			-4.2		88.1	○	23		
				270°02'43"		11.9					87.8	○			
											0.3			0.3 ERROR in closure	

WORKED BY Samuel Perce CHECKED BY John J. Wainwright 2nd \_\_\_\_\_

STADIA SURVEY NOTES

AREA Wainwright STATE AK PAGE No. 162  
 LINE No. 25XW PARTY No. 1182 DATE Day 8 Mo. 2 Yr. 1980 BOOK No. \_\_\_\_\_  
 SURVEYOR Perez RODMAN Wight WEATHER -30° Wind P.T.S. No. \_\_\_\_\_



LINE	Bearing or Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	FINAL ELEVATIONS	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correction	Center Hair			INST.	ROD			
	Note: From SP 17 to SP 1 to T36 Elev. run down station															
	960		89°13'22"	11.4						-1.7	86.8	88.49	▲	80331	= Elev. 88.49	
			270°46'47"	11.4									▲			
	0		90°00'00"	5.4						-5.4		81.4	×	17		
	1320		89°54'20"	11.4						-9.1		77.8		16		
	2640		90°11'30"	11.4						-20.1		66.7		15		
	3960		90°05'10"	11.4						-17.0		69.8		14		
	5280		89°54'20"	11.4						-2.1		84.7		13		
	6600		89°52'00"	11.4						+4.9		91.7		12		
	7920		89°55'00"	11.4						+1.2		88.0	○	11		
			270°04'47"	11.4								87.2	○			
												87.8				
												0.8			= Error of Closure	

WORKED BY José Pérez CHECKED BY John Waisanen 2nd \_\_\_\_\_



STADIA SURVEY NOTES

AREA Wainwright STATE Al. PAGE No. 164  
 LINE No. D.5XW PARTY No. 1182 DATE Sun. Day 10 Mo. 2 Yr. 1980 BOOK No. \_\_\_\_\_  
 SURVEYOR Perce RODMAN Wright WEATHER windy -24° P.T.S. No. \_\_\_\_\_



LINE	Bearing or Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING			Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	FINAL ELEVATIONS	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correction			Center Hair	INST.			
<del>43</del>		9240		89°56'27"	11.4				+0.6	88.4	87.8	Δ 23			
				270°03'13"	11.4							Δ			
		7920		90°01'00"	11.4				-12.4		75.9	24			
		6600		90°01'20"	11.4				-13.1		75.3	25			
		<del>5200</del> <del>5680</del>		90°02'10"	11.4				-14.2		74.2	26			
		3960		89°59'20"	11.4	22.0			-20.9		67.4	27			
		2640		90°04'40"	11.4				-14.8		73.5	28			
		1320		89°39'50"	11.4				-3.6		84.7	29			
		0		90°06'00"	5.0				-5.0		83.4	I 30			
		50'		90°00'00"	4.7				-4.7		83.6	803.36		Elev. = 83.60	
		<del>50'</del>		270°00'00"	4.7					88.3	83.6				

WORKED BY Jabriel Perez CHECKED BY John J. Wainwright 2nd 0.0 Error of closure

STADIA SURVEY NOTES

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AREA Wainwright STATE AK. PAGE No. 164 165  
 LINE No. D5XW PARTY No. 1182 DATE SUN. Day 10 Mo. 2 Yr. 1980 BOOK No. \_\_\_\_\_  
 SURVEYOR P2122 RODMAN Wright WEATHER 20° P.T.S. No. \_\_\_\_\_



LINE	Bearing or Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING			Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	FINAL ELEVATIONS	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correction			Center Hair	INST.			
										88.3	<del>88.3</del>				
		1320		89°41'40"		11.4			-4.3		84.0		31		
		2640		89°34'10"		11.4			+8.6		96.9		32		
		3960		89°40'30"		11.4	22.0		+0.5		88.8	○	33		
				270°18'56"		11.4	22.0				<del>89.4</del>	○			
											0.6			Error in closure	
		4455		90°03'29"		11.4			+15.8	105.2		△	33		
				269°56'00"		11.4						△			
		3133		90°03'30"		11.4			-14.4		90.9		34		
		1215		90°09'10"		11.4			-16.2		89.1		35		
		495		90°13'50"		11.4			-13.4		91.9		36		
		0		90°00'00"		5.0			-5.0		100.2		2 36+495		

WORKED BY Johel Perez CHECKED BY Johel Wainwright 2nd

STADIA SURVEY NOTES

AREA Wainwright STATE AK. PAGE No. 165 166  
 LINE No. DSXW PARTY No. 1182 DATE Sun. Day 10 Mo. 2 Yr. 1980 BOOK No. \_\_\_\_\_  
 SURVEYOR PEREZ RODMAN Wright WEATHER -20° P.T.S. No. \_\_\_\_\_



LINE	Bearing or Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING			Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		BS FS SS	Station	FINAL ELEVATIONS	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correction			Center Hair	INST.				
		825		90°24'10"		11.4			-17.2	105.2	88.0		37			
		2145		90°09'30"		11.4			-17.2		88.0		38			
		3465		90°00'30"		11.4			-11.7		93.6		39			
		4785		89°59'28"		11.4			-10.0		95.2		40			
		6105		89°55'20"		11.4			-2.3		102.9		41			
		7425		89°58'43"		11.4			+7.0		112.2	0	42			
				270°07'43"		11.4					113.5	0				
		7920		89°48'52"		11.4			-14.9	98.6		1.3	42		Error in closure	
				270°15'32"		11.4						Δ				
		6600		89°54'20"		11.4			+0.4		99.0		43			

WORKED BY Sabriel Perez CHECKED BY John Wainwright 2nd \_\_\_\_\_

# HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA Wainwright STATE/COUNTY AK BOOK NO. \_\_\_\_\_ PAGE 167 OF 166  
 LINE/LOOP NO. DSXW TYPE SURVEY \_\_\_\_\_ CLIENT \_\_\_\_\_ DATE 10 DY 2 MO 80 YR  
 SURVEYOR Peretz INSTRUMENT DESC/SERIAL NO. \_\_\_\_\_ CREW NO. 1182

28483 = 8  
94

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									98.6			1	
2		44	5280		89°56'00"	11.4	-4.7		93.9			2	
3		45	3960		89°55'10"	11.4	-5.5		93.1			3	
4		46	2640		89°55'20"	11.4	-7.7		90.9			4	
5		47	1320		89°49'00"	11.4	-7.1		91.5			5	
6		47+961	359		89°02'00"	11.4	-5.3		93.3			6	Intersection DSXW # 712
7	I	48	0		90°00'00"	5.0	-5.0		93.6			7	
8		49	1320		89°39'30"	11.4	-3.5		95.1			8	
9		29	611		89°16'00"	11.4	-3.6		95.0			9	SP 29 on 712
10		50	2640		89°43'10"	11.4	+1.7		100.3			10	
11	⊙	50+495	3135		89°31'15"	11.4	+14.8		113.4			11	
12	⊙				270°28'09"	11.4			113.9			12	
13												13	0.5 Error in closure
14	Δ	50+495	4785		270°28'47.8"	11.4	-6.5	107.4				14	
15	Δ				270°12'08"	11.4						15	
16												16	
17												17	

WORKED BY Subrail Peretz CHECKED BY 1ST John Wainwright 2ND \_\_\_\_\_  
 SYMBOLS Δ = BACKSIGHT    ⊕ = INSTRUMENT SET-UP    SS = SIDESHOT    ⊙ = FORESIGHT

# HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA Wainwright STATE/COUNTY AK BOOK NO. \_\_\_\_\_ PAGE 168 OF \_\_\_\_\_  
 LINE/LOOP NO. D5XW TYPE SURVEY \_\_\_\_\_ CLIENT Husky DATE 10 DY 2 MO 80 YR  
 SURVEYOR Perez INSTRUMENT DESC/SERIAL NO. \_\_\_\_\_ CREW NO. 1182

LINE	<input type="checkbox"/> $\triangle$ <input type="checkbox"/> $\nabla$ <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 DJ	RIGHT TURNED HORIZONTAL ANGLE	LINE	
				SLOPE	HORIZ					INST					ROD
1									107.4			1			
2		51	3960		11.4		-13.6		93.8			2			
3		52	2640		11.4		-13.8		93.6			3			
4		53	1320		11.4		-13.5		93.9			4			
5	I	54	0		5.0		-5.0		102.4			5			
6		55	1320		11.4		-10.8		96.6			6			
7		56	2640		11.4		-10.9		96.5			7			
8	$\odot$	57	3960		11.4		-8.8		99.2			8			
9	$\odot$	58	5180		11.4		2		99.8			9			
10									0.6 Error in closure			10			
11												11			
12												12			
13												13			
14												14			
15												15			
16												16			
17												17			

WORKED BY Samuel Perez CHECKED BY 1ST John Johnson 2ND \_\_\_\_\_  
**SYMBOLS**     $\triangle$  = BACKSIGHT     $\nabla$  = INSTRUMENT SET-UP    SS = SIDESHOT     $\odot$  = FORESIGHT

# HORIZONTAL AND VERTICAL SURVEY NOTES

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GSI AREA Wainwright STATE/COUNTY AK. BOOK NO. \_\_\_\_\_ PAGE 169 OF 169  
 LINE/LOOP NO. D5XW TYPE SURVEY \_\_\_\_\_ CLIENT Husky DATE 12 DY 2 MO 80 YR  
 SURVEYOR Perez INSTRUMENT DESC/SERIAL NO. \_\_\_\_\_ CREW NO. 1182

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		LINE
				SLOPE					HORIZ	INST			
1													
2	Δ	57	6600		89°59'30"	11.4	+2.6	102.4		99.83			2
3	Δ				270°03'46"	11.4							3
4		58	5280		89°55'20"	11.4	-3.9			98.5			4
5		59	3960		89°54'20"	11.4	-4.5			97.9			5
6		60	2640		89°53'10"	11.4	-6.0			96.4			6
7		61	1320		89°37'10"	11.4	-2.6			99.8			7
8	I	62	0		90°00'00"	5.0	-5.0			97.4			8
9	SS	80328 *	± 894		89°51'19"	11.4	-9.2			93.2			9
10					270°08'03"	11.4	+9.2	102.5		93.3			10
11	○	63	1320		90°09'12"	11.4							11
12	○				269°50'06"	11.4	-15.0			87.5			12
13													13
14	Δ	63	3960		89°21'21"	11.4	-33.0	54.5					14
15	Δ				270°37'58"	11.4							15
16													16
17													17

WORKED BY Jacobil Perez CHECKED BY 1ST John Wainwright 2ND \_\_\_\_\_  
 SYMBOLS    Δ = BACKSIGHT    K = INSTRUMENT SET-UP    SS = SIDESHOT    ○ = FORESIGHT

# HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA Wainwright STATE/COUNTY AK. BOOK NO. \_\_\_\_\_ PAGE 170 OF 169  
 LINE/LOOP NO. D5XW TYPE SURVEY \_\_\_\_\_ CLIENT Nusky DATE 12 DY 2 MO 80 YR  
 SURVEYOR Perce INSTRUMENT DESC/SERIAL NO. \_\_\_\_\_ CREW NO. 1182

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 DJ	RIGHT TURNED HORIZONTAL ANGLE						
				SLOPE					HORIZ	INST				ROD					
1																			
2		64	2640			89°43'50"	11.4	+1.2			54.5								
3		65	1320			91°05'30"	11.4	-36.5			18.0								
4	I	66	0			90°00'00"	5.0	-5.0			49.5								
5		67	1320			89°07'50"	11.4	+8.7			63.1								
6		68	2640			89°23'10"	11.4	+17.0			71.5								
7		69	3960			89°27'50"	11.4	-8.6	26.0		45.9	80.4							
8	⊙	70	5280			89°27'04"	11.4	+39.3			93.8								
9	⊙					270°32'19"	11.4				93.8								
10											0.2	Error in closure							
11	Δ	70	5280			90°03'38"	11.4	+17.0		110.8									
12	Δ					269°55'35"	11.4												
13																			
14		71	3960			89°59'50"	11.4	-10.9			99.7								
15		72	2640			89°54'40"	11.4	-7.2			103.6								
16																			
17																			

WORKED BY Subiel Perce CHECKED BY 1ST John Waisanen 2ND \_\_\_\_\_  
 SYMBOLS    Δ = BACKSIGHT    ⊠ = INSTRUMENT SET-UP    ⊞ = SINESHOT    ⊙ = FORESIGHT

# HORIZONTAL AND VERTICAL SURVEY NOTES

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GSI AREA Mainwright STATE/COUNTY AK BOOK NO. 171 OF 170 PAGE 170  
 LINE/LOOP NO. D5XW TYPE SURVEY \_\_\_\_\_ CLIENT \_\_\_\_\_ DATE 12 DY 2 MO 00 YR  
 SURVEYOR PEREZ INSTRUMENT DESC/SERIAL NO. \_\_\_\_\_ CREW NO. 1182

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		
1												
2		73	1320		89°45'30"	11.4	-5.8		110.8			
3	I	74	0		90°00'00"	5.0	-5.0		105.8			
4		75	1320		88°48'30"	11.4	-7.0		103.6			
5		76	2640		89°58'20"	11.4	-10.0		100.6			
6	⊙	77	3960		90°02'30"	11.4	-14.7		96.2			
7	⊙	78			269°56'42"	11.4			96.0			
8									0.2 Error in closure			
9	Δ	77	5280		89°35'26"	11.4	-26.3	69.7	0.1			
10	Δ				278°23'50"	11.4						
11		78	3960		89°41'30"	11.4	+10.2		79.9			
12		79	2640		89°56'00"	11.4	-8.2		61.5			
13		80	1320		90°12'00"	11.4	-16.0		53.7			
14	I	81	0		90°00'00"	5.0	-5.0		64.7			
15		82	1320		90°04'20"	11.4	-13.0		56.7			
16		83	2640		90°05'50"	11.4	15.7		54.0			
17												

WORKED BY Javier Perez CHECKED BY 1ST John Dawson 2ND \_\_\_\_\_  
 SYMBOLS    Δ = BACKSIGHT    ⊠ = INSTRUMENT SET-UP    ⊙ = SIDESHOT    ⊙ = FORESIGHT





# HORIZONTAL AND VERTICAL SURVEY NOTES

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GSI AREA Wainwright STATE/COUNTY AL. BOOK NO. \_\_\_\_\_ PAGE 173 OF 173  
 LINE/LOOP NO. D5XW TYPE SURVEY \_\_\_\_\_ CLIENT Husky DATE 19 DY 2 MO 80 YR  
 SURVEYOR Perez INSTRUMENT DESC/SERIAL NO. \_\_\_\_\_ CREW NO. 110

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		
1												
2		91	3410		89°42'30"	11.4	+6.2		102.4			2
3		92	4730		89°46'00"	11.4	+8.3		104.5			3
4	○	93	6050		89°49'24"	11.4	+7.5		103.8			4
5	○				270°10'04"	11.4			103.0			5
6									0.8	Error in closure		
7	Δ	93	5775		90°03'16"	11.4	+16.7	119.7				7
8	Δ				269°56'10"	11.4						8
9		94	4455		90°08'30"	11.4	-22.0		97.7			9
10		95	3135		90°06'30"	11.4	-17.0		102.7			10
11		96	1815		90°11'30"	11.4	-17.4		102.3			11
12		97	495		89°37'10"	11.4	-8.1		111.6			12
13	I	97+495	0		96°00'00"	5.0	-5.0		114.7			13
14		98	825		89°33'20"	11.4	-5.0		114.7			14
15		99	2145		89°38'40"	11.4	+2.0		121.7			15
16	○	100	3465		89°42'38"	11.4	+6.0		125.7			16
17	○				270°16'44"	11.4			125.3			17

WORKED BY Subil Perez CHECKED BY 1ST John Dawson 2ND \_\_\_\_\_  
 SYMBOLS    Δ = BACKSIGHT    ⚡ = INSTRUMENT SET-UP    ○ = SIDESHOT    ⊙ = FORESIGHT

0.4 error in closure

# HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA Wainwright STATE/COUNTY AK. BOOK NO. \_\_\_\_\_ PAGE 173 OF 174 15  
 LINE/LOOP NO. D5XW TYPE SURVEY \_\_\_\_\_ CLIENT Husky DATE 12 BY 2 MO 80 YR  
 SURVEYOR Perez INSTRUMENT DESC/SERIAL NO. \_\_\_\_\_ CREW NO. 1182

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									125.26		1		
2	Δ	100	2915		90°01'43"	11.4	+12.9	138.2			2		
3	Δ				269°57'46"	11.4					3		
4		101	1595		90°04'20"	11.4	-13.4		124.8		4		
5		102	275		28°55'50"	11.4	-6.3		131.9		5		
6	⊕	102+275	0		90°00'00"	5.0	-5.0		133.2		6		
7		102+926	651		89°41'50"	11.4	-7.9		130.3		7	P.I. D5XW + 706 = 657.350	
8		103	1045		89°55'10"	11.4	-9.9		128.3		8		
9	SS	80341	1840		90°02'23"	11.4	-12.7		125.4		9	T.B.M. El. = 125.20	
10	SS				269°57'07"	11.4	+12.7	137.9	125.2		10		
11		66	1185		89°32'50"	11.4	-2.0		0.2	Error in closure		11	SP ON 706 Line
12		104	2365		90°14'00"	11.4	-20.9		135.9 -117.0		12		
13		105	3685		90°18'00"	11.4	-30.4		107.5		13		
14		106	5005		90°19'20"	11.4	-39.0		98.9		14		
15											15		
16											16		
17											17		

WORKED BY Subiel Perez CHECKED BY 1ST John W. Warren 2ND \_\_\_\_\_  
 SYMBOLS    Δ = BACKSIGHT    ⊕ = INSTRUMENT SET-UP    SS = SIDESHOT    ⊙ = FORESIGHT

# HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA Wainwright STATE/COUNTY AK BOOK NO. 19 PAGE 174 OF 175 16  
 LINE/LOOP NO. D5XW TYPE SURVEY \_\_\_\_\_ CLIENT Husky DATE 12 DAY 3 MO 80 YR  
 SURVEYOR Petez INSTRUMENT DESC/SERIAL NO. \_\_\_\_\_ CREW NO. 1182

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									137.9			1	
2		107	6325		96°17'40"	11.4	-43.1		94.8			2	
3	○	108	7645		90°19'30"	11.4	-54.3		83.6			3	
4	○				269°39'50"	11.4			83.0			4	
5									0.6 Error in closure				
6	Δ	108	9240		90°01'59"	11.4	+15.9	98.9				6	
7	Δ	108			269°56'57"	11.4						7	
8					57°20"							8	
9		109	7920		90°04'40"	11.4	-20.9		78.1			9	
10		110	6600		90°06'50"	11.4	-23.6		75.3			10	
11		111	5280		90°03'50"	11.4	-16.7		82.2			11	
12		112	3960		90°07'50"	22.0	-30.7		68.2			12	
13		113	2640		90°01'00"	11.4	-12.0		86.9			13	
14		114	1320		89°46'20"	11.4	-6.1		92.8			14	
15	⊥	115	0		90°00'00"	5.0	-5.0		93.9			15	
16		116	1320		90°15'00"	11.4	-17.1		81.8			16	
17												17	

WORKED BY Sabriel Perez CHECKED BY 1ST John Dawson 2ND \_\_\_\_\_  
 SYMBOLS    Δ = BACKSIGHT    ⊥ = INSTRUMENT SET-UP    SS = SIDESHOT    ○ = FORESIGHT

# HORIZONTAL AND VERTICAL SURVEY NOTES

176  
17

GSI AREA Wainwright STATE/COUNTY AK. BOOK NO. \_\_\_\_\_ PAGE 175 OF \_\_\_\_\_  
 LINE/LOOP NO. D5XW TYPE SURVEY \_\_\_\_\_ CLIENT Husky DATE 13 BY 2 MO 80 YR  
 SURVEYOR PRICE INSTRUMENT DESC/SERIAL NO. \_\_\_\_\_ CREW NO. 1182

LINE	  	STATION	VERTICAL						HORIZONTAL		REMARKS		
			DISTANCE	<input type="checkbox"/> FEET <input type="checkbox"/> METERS	VERTICAL ANGLE OBS.	ROD RDG OR HI	ELEV DIFF	FINAL ELEVATION DIFF	ELEVATION			L/R OR DI	RIGHT TURNED HORIZONTAL ANGLE
				SLOPE					HORIZ	INST			
1												1	
2		117	2640		90°10'00"	11.4	-18.9		80.0			2	
3		118	3960		90°19'50"	11.4	-33.9		65.0			3	
4		119	5280		90°18'50"	11.4	-39.7		59.2			4	
5		120	6600		90°11'30"	11.4	-32.6		66.3			5	
6	⊙	121	7920		90°25'10"	11.4	-22.6		76.3			6	
7	⊙				269°54'18"	11.4			75.7			7	
8									0.6 Error in closure				
9	Δ	121	280.5		89°47'20"	11.4	+1.1	76.8				9	
10	Δ				270°12'06"	11.4						10	
11		122	1485		90°10'40"	11.4	-16.0		60.9			11	
12		123	165		88°42'00"	11.4	-7.7		69.2			12	
13	⊗	123 + 165	0		90°00'00"	5.0	-5.0		71.8			13	
14		124	115.5		90°24'20"	22.0	-30.1		46.7			14	
15		125	2475		90°19'30"	22.0	-35.9		40.9			15	
16												16	
17												17	

WORKED BY Samuel Price CHECKED BY 1ST John P. Pucare 2ND \_\_\_\_\_  
 SYMBOLS    Δ = BACKSIGHT    ⊗ = INSTRUMENT SET-UP    ⊙ = SIDESHOT    ⊙ = FORESIGHT

# HORIZONTAL AND VERTICAL SURVEY NOTES

18

GSI AREA Wainwright STATE/COUNTY AK. BOOK NO. \_\_\_\_\_ PAGE 177 OF 176  
 LINE/LOOP NO. D5XW TYPE SURVEY \_\_\_\_\_ CLIENT Husky DATE 13 BY 2 MO 20 YR  
 SURVEYOR Perez INSTRUMENT DESC/SERIAL NO. \_\_\_\_\_ CREW NO. 1182

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		
1											1	
2		126	3795		90°21'40"	11.4	-34.3		76.8	42.5		2
3		127	5115		90°02'10"	11.4	-14.1			62.7		3
4	⊙	128	6435		89°55'46"	11.4	-3.1			73.7		4
5	⊙				270°03'46"	11.4				73.2		5
6										0.5 Error in closure		
7	Δ	128	6600		89°51'15"	11.4	-5.6		67.5			7
8	Δ				270°08'04"	11.4						8
9		129	5280		89°57'00"	11.4	-6.2			61.3		9
10		130	3960		89°48'10"	11.4	+2.5			70.1		10
11		131	2640		89°54'00"	11.4	-6.6			60.9		11
12		132	1320		89°56'40"	11.4	-10.1			57.4		12
13	⊗	133	0		90°00'00"	5.0	-5.0			62.5		13
14		134	1320		89°36'30"	11.4	-2.3			65.2		14
15	⊙	135	2640		89°26'53"	11.4	+14.0			81.6		15
16	⊙				270°32'46"	11.4				81.4		16
17										0.2 Error of closure		

WORKED BY Samuel Perez CHECKED BY 1ST John W. ... 2ND \_\_\_\_\_  
 SYMBOLS    Δ = BACKSIGHT    ⊗ = INSTRUMENT SET-UP    SS = SIDESHOT    ⊙ = FORESIGHT

# HORIZONTAL AND VERTICAL SURVEY NOTES

19

GSI AREA Wainwright STATE/COUNTY AK. BOOK NO. \_\_\_\_\_ PAGE 177 OF 178  
 LINE/LOOP NO. D5XW TYPE SURVEY \_\_\_\_\_ CLIENT Husky DATE 13 BY 2 MO 80 YR  
 SURVEYOR Perez INSTRUMENT DESC/SERIAL NO. \_\_\_\_\_ CREW NO. 1182

LINE	  	STATION	VERTICAL						HORIZONTAL		REMARKS								
			DISTANCE	<input type="checkbox"/> FEET <input type="checkbox"/> METERS	VERTICAL ANGLE OBS.	ROD RDG OR HI	ELEV DIFF	FINAL ELEVATION DIFF	ELEVATION			LR OR DR	RIGHT TURNED HORIZONTAL ANGLE						
				SLOPE					HORIZ	INST				ROD					
1																			
2		135	6600			89°57'19" 11.4		+5.9	87.2										
3						270°02'08" 11.4													
4		136	5280			90°11'50" 11.4		-29.0	58.2										
5		137	3960			90°14'40" 11.4		-28.0	59.3										
6		138	2640			90°15'00" 11.4		-22.8	64.5										
7		139	1320			90°49'50" 11.4		-30.5	56.7										
8		140	0			90°00'00" 11.4		-5.0	82.2										
9		140+330	330			88°43'30" 11.4		-4.0	83.2										Intersection D5XW & 704
10		42	463			89°18'00" 11.4		-5.7	81.5										SP ON 704
11		141	1320			89°45'40" 11.4		-5.9	81.4										
12		142	2640			89°33'20" 11.4		+9.2	96.5										
13		80343	2740			89°41'44" 11.4		+3.1	90.3										T.B.M. El. = 90.13
14						270°17'44" 11.4		-3.1	87.0										
15		143	3960			89°44'36" 11.4		-											0.2 Error of closure
16						270°14'55" 11.4		-4.2	82.8										
17																			

WORKED BY Johel Perez CHECKED BY 1ST John W. ... 2ND \_\_\_\_\_

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

# HORIZONTAL AND VERTICAL SURVEY NOTES

20

GSI AREA Wainwright STATE/COUNTY AK. BOOK NO. \_\_\_\_\_ PAGE 177 OF 178  
 LINE/LOOP NO. D5XW TYPE SURVEY \_\_\_\_\_ CLIENT Husky DATE 13 BY 2 MO 80YR  
 SURVEYOR Perce INSTRUMENT DESC/SERIAL NO. \_\_\_\_\_ CREW NO. 1182

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	ELEVATION		LR OR DR		RIGHT TURNED HORIZONTAL ANGLE
				SLOPE				HORIZ	INST			
1									82.8			1
2	Δ	143	44.55		90°21'46"	11.4	+39.6	122.4				2
3	Δ				269°37'36"	11.4						3
4		144	31.35		90°38'00"	11.4	-45.8		76.6			4
5		145	18.15		90°37'10"	11.4	-30.9		91.5			5
6		146	49.5		89°41'40"	11.4	-8.8		113.7			6
7	⊕	146+495	0		90°00'00"	5.0	-5.0		117.4			7
8		147	8.25		89°57'50"	11.4	-10.9		111.6			8
9	⊙	148	21.45		90°25'58"	22.0	-38.2		84.2			9
10	⊙				269°33'34"	22.0			84.2			10
11	Δ	148	39.60		89°26'46"	11.4	-26.9	57.2	0.0	Error of closure		
12	Δ				270°32'44"	11.4						12
13		149	26.40		90°07'50"	11.4	-17.3		40.0			13
14		150	13.20		90°24'00"	11.4	-20.6		36.6			14
15	⊕	151	0		90°00'00"	5.0	-5.0		52.2			15
16	▽	152	13.20		89°27'40"	11.4	+1.1		58.3			16
17												17

WORKED BY Subriel Perez CHECKED BY 1ST John W. ... 2ND \_\_\_\_\_  
 SYMBOLS    Δ = BACKSIGHT    ⊕ = INSTRUMENT SET-UP    ⊙ = SIDESHOT    ⊙ = FORESIGHT



# HORIZONTAL AND VERTICAL SURVEY NOTES

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GSI AREA Wainwright STATE/COUNTY AK. BOOK NO. \_\_\_\_\_ PAGE 179 OF 180  
 LINE/LOOP NO. D5XW TYPE SURVEY \_\_\_\_\_ CLIENT Husky DATE 13 BY 2 MO 80 YR  
 SURVEYOR Perez INSTRUMENT DESC/SERIAL NO. \_\_\_\_\_ CREW NO. 1183

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								57.2			1		
2		153	2640		89°32'30"	11.4	+9.9		67.1			2	
3		154	2960		89°33'40"	11.4	+19.3		76.5			3	
4		155	5280		89°33'40"	11.4	+29.6		86.8			4	
5		156	6600		89°33'20"	11.4	+40.7		97.9			5	
6		157	7920		89°29'22"	11.4	+59.9		117.1			6	
7					270°30'06"	11.4			117.1			7	
8									0.0 Error of closure			8	
9		157	2640		89°56'24"	11.4	+8.7	125.8				9	
10					270°03'00"	11.4						10	
11		158	1320		89°38'20"	11.4	-3.0		122.7			11	
12		159	0		90°00'00"	5.8	-5.6		120.2			12	
13		159+541	541		89°42'30"	11.4	-8.6		117.1			13	P.I. D5XW & 702 = 215668
14		22	850		89°54'40"	11.4	-10.1		115.7			14	57' 32" on 702 line No. 3 side of D5XW
15		160	1320		90°12'50"	11.4	-16.3		109.5			15	
16												16	
17												17	

WORKED BY Jabail Perez CHECKED BY 1ST John J. [Signature] 2ND \_\_\_\_\_  
 SYMBOLS = BACKSIGHT = INSTRUMENT SET-UP = FORESIGHT

STADIA SURVEY NOTES

AREA Wainwright STATE AK. PAGE No. 180 181  
 LINE No. D5XW PARTY No. 1182 DATE Day 13 Mo. 2 Yr. 1980 BOOK No. \_\_\_\_\_  
 SURVEYOR Price RODMAN Wright WEATHER \_\_\_\_\_ P.T.S. No. \_\_\_\_\_



LINE	Bearing or Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING			Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	FINAL ELEVATIONS	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correction			Center Hair	INST.			
										125.8					
		2640		90° 02' 04"		11.4			-13.0	112.8		161			
				269° 57' 36"		11.4				112.8	○				
										0.0	E.O.C. <del>162</del>				
		5280		89° 46' 21"		11.4			-9.8	103.0	Δ	161			
				270° 13' 27"		11.4									
		3960		89° 56' 20"		11.4			-6.8	96.2		162			
		2640		89° 54' 40"		22.0			-17.8	85.3		163			
		1320		89° 44' 00"		11.4			-5.2	97.8		164			
		0		90° 00' 00"		5.0			-5.0	98.0	X	165	Note: Unable to locate T.B.M. @ End of line for last tie see p. 184		
		1320		90° 09' 50"		11.4			-15.1	87.9		166			
		2640		90° 20' 37"		11.4			-27.4	75.7	○	167			
				269° 58' 40"		11.4					○				

WORKED BY Subal Price CHECKED BY John W. Swan 2nd \_\_\_\_\_

STADIA SURVEY NOTES

28

AREA Wainwright STATE AK. PAGE No. 181 182  
 LINE No. DSXW PARTY No. 1183 DATE 13 Mo. 02 Yr. 1980 BOOK No. \_\_\_\_\_  
 SURVEYOR Perce RODMAN Wright WEATHER \_\_\_\_\_ P.T.S. No. \_\_\_\_\_



LINE	Bearing or Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	FINAL ELEVATIONS	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correction	Center Hair			INST.	ROD			
		7920		89°56'54"		11.4				+3.7	79.3		75.7	Δ	167	
		6600		87°02'30"		11.4				-15.0			64.3	Δ	168	
		5280		90°04'40"		11.4				18.0			61.3		169	
		3960		90°03'20"		11.4				-14.9			64.4		170	
		2640		90°02'20"		11.4				-13.0			66.3		171	
		1320		89°53'40"		11.4				-8.9			70.4		172	
		0		90°00'00"		5.0				-5.0			74.3	X	173	
		1320		89°45'00"		11.4				-5.6			73.7		174	
		2640		89°37'50"		11.4				-9.6			69.7		175	

WORKED BY Samuel Perce CHECKED BY John W. Weaver 2nd \_\_\_\_\_

STADIA SURVEY NOTES

24

AREA Wainwright STATE AK PAGE No. 782 183  
 LINE No. D5XW PARTY No. 1182 DATE Day 14 Mo. 2 Yr. 1980 BOOK No. \_\_\_\_\_  
 SURVEYOR Perez RODMAN Wright WEATHER 20° P.T.S. No. \_\_\_\_\_



LINE	Bearing or Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	FINAL ELEVATIONS	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correction	Center Hair			INST.	ROD			
											79.3					
		3960		90°06'36"		11.4					-18.6	60.8		176		
		5280		90°03'30"		11.4					-16.2	63.1		TS 1		
		6600		90°04'12"		11.4					-18.9	60.45	⊙	TS 2		
				269°55'28"		11.4							⊙			
		3260		89°54'38"		11.4					+5.2	65.6	Δ	TS 2		
				270°04'50"		11.4										
		2640		90°03'00"		4.0					-5.4	60.3		TS 3		
		1320		90°03'50"		4.0					-5.4	60.2		TS 4		
		0		90°00'00"		5.0					-5.0	60.6	κ	TS 5		
		1320		89°58'40"		4.0					-1.5	64.1		TS 6		

WORKED BY José Luis Pérez

CHECKED BY John Johnson

2nd

TI-588D

10 90

STADIA SURVEY NOTES

25

AREA Wainwright STATE AK PAGE No. 184  
 LINE No. D5XW PARTY No. 1182 DATE Day 14 Mo. 2 Yr. 1980 BOOK No. \_\_\_\_\_  
 SURVEYOR \_\_\_\_\_ RODMAN \_\_\_\_\_ WEATHER \_\_\_\_\_ P.T.S. No. \_\_\_\_\_



LINE	Bearing or Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	FINAL ELEVATIONS	REMARKS
			Level	Inclined	Angle or Factor	Hoir Read	Reading	Correction	Center Hair			INST.	ROD			
						Note: This shot was taken after unable to locate T.B.M.'s										
	<del>52°55'00"</del>	0		90°00'00"		5.0								K 165		
				270°00'00"		5.0										
	52°55'00"	2180		88°39'43'		11.4				+39.4	142.4		80509		T.B.M. = 142.43	
				271°19'36"		11.4				+39.4	142.4					
											0.0		E.O.C.			

Angle right  
 sig. being down sta.  
 for horiz. dist. =  
 check, 140.165 to 140.165

WORKED BY Edmil Perry CHECKED BY John J. Wason 2nd \_\_\_\_\_