

STADIA SURVEY NOTES

AREA IKPIKPUK - KEY STATE or PROVINCE ALASKA PAGE No. 1
 LINE No.(s) 101 PARTY No. 1182 DATE 14 Day MAR Mo. 77 Yr. BOOK No. _____
 SURVEYOR J. SWANSON RODMAN T. VANALEN WEATHER: _____ P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		ABS. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1				THIS LINE STARTS FROM A TRAVERSE												-43 GROUP 24, TAIL WEST END LINE 101
2				WHICH BEGAN AT THE NORTH END OF TAIL												
3				OF NORTH END (SP. 1) OF LINE 104												
4																
5													37.8			SEE PG. 4 OF SEPARATE TRAV.
6		0		90								43.6	Δ			
7																
8	152/	2304		90	0307				-3.52	-5.5			38.2	0		TAIL
9					269 57.15				-3.52	-5.2				0		
10					270 14 10				-15.0					0		
11																
12	108/	1656		89	53 49				+6.73	+3.7				Δ		TAIL
13					270 06 29				+6.73	+3.5				Δ		
14					270 23 37				+15.0					Δ		
15																
16	126/	2520		90	04 59				-2.48	-6.0			35.9	0		TAIL
17					269 55 24				-2.48	-5.7				0		
18					270 12 37				-15.0					0		
19																
20																

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STADIA SURVEY NOTES

AREA IKPIKUK - KEY STATE or PROVINCE ALASKA PAGE No. 2
 LINE No.(s) 101 PARTY No. 1182 DATE 14 Day MAR Mo. 77 Yr. BOOK No. _____
 SURVEYOR JOEL SWANSON RODMAN TIM VAN ALEN WEATHER: _____ P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING			Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		▲B.S. OF.S. -S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion			Center Hair	INST.			
1															
2															
3															
4	<u>130°</u>	<u>1460</u>		<u>90 03 43</u>				<u>+272</u>	<u>+9.2</u>		<u>45.1</u>		<u>Δ</u>	<u>SP1 +179</u>	
5				<u>269 56 43</u>				<u>+272</u>	<u>+9.0</u>				<u>Δ</u>		
6				<u>270 14 16</u>				<u>+15.0</u>					<u>Δ</u>		
7															
8		<u>179</u>		<u>91 13 59</u>				<u>-5.0</u>			<u>36.2</u>		<u>SP 1</u>	<u>PIPE MARKER</u>	
9	<u>STADIA</u>													<u>← 50</u>	
10	<u>1150</u>	<u>1141</u>		<u>89 37 13</u>				<u>-15.0</u>			<u>37.6</u>		<u>2</u>		
11															
12		<u>2461</u>		<u>89 51 36</u>				<u>-15.0</u>			<u>36.2</u>		<u>3</u>		
13															
14		<u>3781</u>		<u>89 55 09</u>				<u>-15.0</u>	<u>-9.4</u>		<u>36.1</u>	<u>0</u>	<u>4</u>		
15				<u>270 05 33</u>				<u>-15.0</u>	<u>-8.6</u>			<u>0</u>			
16				<u>269 56 57</u>				<u>-5.0?</u>				<u>0</u>			
17															
18		<u>3960</u>		<u>89 46 41</u>				<u>+15.0</u>	<u>-0.7</u>		<u>35.4</u>		<u>Δ</u>	<u>7</u>	
19				<u>270 13 21</u>				<u>+15.0</u>	<u>-0.7</u>				<u>Δ</u>		
20															

1150
180
1330

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STADIA SURVEY NOTES

AREA IKPIKPUK - KEY STATE or PROVINCE ALASKA PAGE No. 3
 LINE No.(s) 101 PARTY No. 1182 DATE 14 Day MAR Mo. 77 Yr. BOOK No. _____
 SURVEYOR J.S. RODMAN T.V. WEATHER: _____ P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		ΔB.S. OF.S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1		2640		89 42 10					-15.0				34.3		5	
2																
3		1320		89 27 40					-15.0				32.9		6	
4																
5		1320		89 36 17					-15.0	-5.9			29.7	0	8	
6				270 24 22					-15.0	-5.6				0		
7				270 11 11					-10.0							
8																
9		3960		89 51 35					+15.0	+5.0		34.4		Δ	11	
10				270 08 53					+15.0	+4.4				Δ		
11				269 59 15					-5.0					Δ		
12																
13		2640		89 46 34					-15.0				29.8		9	W.L.
14																
15		1320		89 46 10					-10.0				29.7		10	W.L.
16																
17		1320		89 22 02					-10.0	+4.6			39.1	0	12	
18				270 38 27					-10.0	+4.8				0		
19				270 25 17					-5.0					0		
20																

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STADIA SURVEY NOTES

AREA IKPIKPUK - KEY STATE or PROVINCE ALASKA PAGE No. 4
 LINE No.(s) 101 PARTY No. 1182 DATE 14 Day MAR Mo. 77 Yr. BOOK No. _____
 SURVEYOR J.S. RODMAN T.V. WEATHER: _____ P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD		
1	<i>90</i>	1815		89	45 04				+15.0	+7.0		46.2		▲	13 +495
2				270	14 38				+15.0	+7.2				▲	
3				269	56 06				+5.0					▲	
4															
5		495		90	07 57				-5.0			40.1			13
6															
7		825		90	03 09				-10.0			35.5			14
8															
9		2145		89	56 05				-15.0			33.8			15
10															
11		3465		90	00 58				-15.0	-15.7		30.6	0		16
12				269	59 16				-15.0	-15.5			0		LINE INT OF SP-14+1270'-101
13				269	49 15				-5.0				0		SP-26+981-103 PIPE MARKER
14															
15															
16															
17															
18															
19															
20															

8
 15
 75
 1800
 495
 15 15

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AREA IKPIKPUK-KEY STATE or PROVINCE ALASKA PAGE No. 5
 LINE No.(s) 101 PARTY No. 1182 DATE 15 Day MAR Mo. 77 Yr. BOOK No. _____
 SURVEYOR J.S. RODMAN T.V. WEATHER: _____ P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING			Center Hair	Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Δ B.S. OF.S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion				INST.	ROD			
1														16		
2		0		90				75.0				35.6	Δ	16		
3																
4		1320		89	30 48			-15.0				31.8		17		
5																
6		2640		89	34 48			-15.0	+4.5			40.1	0	18		
7				270	25 16			-15.0	+4.5				0			
8				270	12 19			-5.0								
9																
10		3960		90	03 25			+15.0	+18.6			58.4	Δ	21		
11				269	57 05			+15.0	+18.0				Δ			
12				269	48 15			+15.0					Δ			
13																
14		2640		90	17 53			-15.0				29.9		19		
15																
16		1320		90	35 53			-15.0				28.7		20		
17																
18		1320		90	21 52			-15.0				35.1		22		
19																
20																

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AREA IKPIKPUK - KEY STATE or PROVINCE ALASKA PAGE No. 6
 LINE No.(s) 101 PARTY No. 1182 DATE 15 Day MAR Mo. 77 Yr. BOOK No. _____
 SURVEYOR V.S. RODMANT. V. WEATHER: _____ P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD		
1		2640		90 11 11					-15.0				35.0	23	
2															
3		3960		90 08 00					-15.0	-23.9			35.1	24	0
4				269 52 52					-15.0	22.9					0
5				269 43 46					-5.0	-23.4					0
6															
7		2640		90 04 53					+15.0	+18.6		53.7		26	Δ
8				269 55 10					+15.0	+18.6					Δ
9				269 42 07					+5.0						Δ
10															
11		1320		90 04 24					-15.0				37.0	25	
12															
13		1320		89 40 49					-15.0				46.1	27	
14															
15		2640		89 39 59					-15.0				54.2	28	W.L. = 35
16															
17		3960		89 44 16					-15.0	+3.5			57.4	29	0
18				270 16 09					-15.0	+3.9					0
19				270 07 19					-5.0						0
20															

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AREA IKPIKPUK - KEY STATE or PROVINCE ALASKA PAGE No. 7
 LINE No.(s) 101 PARTY No. 1182 DATE 15 Day MAR Mo. 77 Yr. BOOK No. _____
 SURVEYOR JOEL SWANSON RODMANTIM VAN ALEN WEATHER: _____ P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	REMARKS	
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			▲B.S. ○F.S. -S.S.
1		3960		89 47 03					+15.0	-0.2		56.9		Δ	32	
2				270 13 18					+15.0	-0.6				Δ		
3				270 04 48					+5.0					Δ		
4																
5		2640		89 53 31					-15.0			47.1			30	W.L. = 35
6																
7		1320		89 47 42					-15.0			46.7			31	W.L. = 35
8																
9		1320		90 33 06					+15.0			29.3			33	
10																
11		2640		90 17 21					-15.0			28.8			34	
12																
13		3960		90 11 38					-15.0	-28.1		29.4	○		35	LINE int of
14				269 49 21					-15.0	-26.9			○			SP-35+00-101
15				269 40 35					-5.0				○			SP-18+00-102
16																
17		1320		90 45 48					+15.0	+32.5		61.8		Δ	36	
18				269 14 54					+15.0	32.3				Δ		
19				268 48 44					+5.0					Δ		
20																

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STADIA SURVEY NOTES

AREA IKPIKPUK - KEY STATE or PROVINCE ALASKA PAGE No. 8
 LINE No.(s) 101 PARTY No. 1182 DATE 15 Day MAR Mo. 77 Yr. BOOK No. _____
 SURVEYOR J.S. RODMAN T.V. WEATHER: _____ P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		ΔB.S. OF.S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1		1320		89 19 24					-15.0	+10.6		62.5	0	37		
2				270 40 53					-15.0	+10.7			0			
3				270 15 00					-5.0				0			
4																
5		0		90					+5.2		67.7		Δ	37		
6																
7		1320		90 06 52					-15.0			50.1		38		
8																
9		2640		90 13 03					-15.0			42.8		39		
10																
11		3960		90 09 58					-15.0	-26.2		42.0	0	40		
12				269 50 44					+5.0	-25.3			0			
13				269 46 10					-10.0				0			
14																
15		5280		90 06 42					+15.0	+24.7	66.3		Δ	44		
16				269 53 46					+15.0	+24.0			Δ			
17																
18		3960		90 06 49					-15.0			43.8		41		
19																
20																

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STADIA SURVEY NOTES

AREA IKPIKPUK RIVER - KEY CREEK STATE or PROVINCE ALASKA PAGE No. 9
 LINE No.(s) 101 PARTY No. 1182 DATE 15 Day MAR Mo. 77 Yr. BOOK No. _____
 SURVEYOR JOEL SWANSON RODMANTIM VAN ALLEN WEATHER: _____ P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING			Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion			Center Hair	INST.		
1		2640		90 14 39				-15.0				40.2	42	
2														
3		1320		90 18 06				-15.0				44.4	43	
4														
5		1320		89 35 49				-15.0				60.7	45	
6														
7		2640		90 02 07				-13.0				51.9	46	
8														
9		3960		90 04 55				+15.0	-20.3			46.0	0	47
10				269 55 00				-15.0	-20.4				0	
11														
12		4540		90 04 04				+15.0	+19.9		65.5		Δ	50+580
13				269 56 38				+15.0	+19.0				Δ	
14														
15		3220		90 00 29				-15.0				50.2	48	
16														
17		1900		89 55 21				-15.0				53.1	49	52' W.L.
18														
19		580		90 11 55				-10.0				53.5	50	52' W.L.
20		740		89 28 55 +				-10.0				62.1	51	

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STADIA SURVEY NOTES

AREA IKPIKPUK - KEY STATE or PROVINCE ALASKA PAGE No. 10
 LINE No.(s) 101 PARTY No. 1182 DATE 15 Day MAR Mo. 77 Yr. BOOK No. _____
 SURVEYOR JOEL SWANSON RODMAN TIM VAN ALEN WEATHER: _____ P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD		
1		2060		89 57 00					-15.0				52.4	52	
2															
3		3380		90 01 21					-6.0	-7.1			58.2	53	LINE INT. OF
4				269 58 22					-6.0	-7.4				53	SP. 53+00-101
5														53	SP. 53+00-99
6		2640		90 00 12					+6.0	+6.0		64.0	58	55	
7				270 00 16					+6.0	+5.6				55	
8															
9		1320		270 11 58					-10.0				61.3	54	
10															
11		1320		89 34 10					-15.0	-5.0			59.1	56	
12				270 26 19					-15.0	-4.9				56	
13															
14															
15															
16															
17															
18															
19															
20															

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STADIA SURVEY NOTES

AREA IKPIKPUK-KEY STATE or PROVINCE ALASKA PAGE No. 11
 LINE No.(s) 101 PARTY No. 1182 DATE 20 Day MAR Mo. 77 Yr. BOOK No. _____
 SURVEYOR JOEL SWANSON RODMANTIM VAN ALEN WEATHER: _____ P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD		
1										BS.	56		59.1		
2															
3		1320		90 40 57					+15.0						
4				270 10					-15.0						
5				89 39 26					+15.0	+7.1		66.2		Δ	57
6				270 20 19					+15.0	+7.2				Δ	
7				269 53 57					+15.0					Δ	
8															
9		1320		89 44 10					-15.0				57.3		58
10															
11		2640		89 52 18					-15.0				57.3		59
12															
13		3960		89 47 38					-15.0	-0.4			65.6	○	60
14				270 12 01					-15.0	-0.8				○	
15				270 03 26					-5.0					○	
16															
17		4889		90 07 49					+15.0	+25.6		91.0		Δ	63+ 929
18				269 52 27					+15.0	25.2				Δ	
19														Δ	
20															

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STADIA SURVEY NOTES

AREA IKPIKPUK-KEY STATE or PROVINCE ALASKA PAGE No. 12
 LINE No.(s) 101 PARTY No. 1182 DATE 20 Day MAR Mo. 77 Yr. BOOK No. _____
 SURVEYOR J. S. RODMAN T.V. WEATHER: _____ P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD		
1		3569		90	13 48								62.0	61	
2															
3		2249		90	14 16								66.8	62	
4															
5		929		90	05 14								79.6	63	
6															
7	196	396		93	18 45								53.2	64	
8															
9		1716		90	07 17								72.5	65	
10															
11		3036		90	00 23					-15.0			75.8	66	
12					269 59 32					-15.0	-15.2				
13					269 48 32					-5.0					
14															
15		3960		89	41 36					715.0	-6.5	69.1		69	
16					270 18 42					115.0	-6.9				
17															
18		2640		90	02 12								52.6	67	
19															
20		1320		90	04 19					-15.0			52.5	68	

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THIS PG SIDE TRAVERSE
ALONG TAIL FROM SP 69

STADIA SURVEY NOTES

AREA IKPIKPUK-KEY STATE or PROVINCE ALASKA PAGE No. 13
 LINE No.(s) 101 PARTY No. 1182 DATE 20 Day MAR Mo. 77 Yr. BOOK No. _____
 SURVEYOR J.S. RODMAN T.V. WEATHER: _____ P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD		
1					TRAVERSE FROM SP 69						SEE LAST PG				
2															
3											69.1		SP69	PIPE MARKER	
4															
5		1160		89	13	02			-9.27	+6.6		75.6	0	4	TAIL
6				270	46	38			-9.27	+6.5			0		
7				270	34	07			-5.0				0		
8															
9	1320	2640		89	31	26			+15.0	-7.1		68.4	Δ	12	TAIL
10				270	28	59			+15.0	-7.4			Δ		
11				270	15	32			+5.0				Δ		
12															
13		1320		89	36	31			-15.0			62.4		8	TAIL
14															
15		1320		90	12	29			-15.0			48.4		16	TAIL
16															
17	1160	2320		90	12	58			-3.50	-12.1		56.2	0	19	TAIL
18				269	47	00			-3.50	-12.2			0		
19				270	04	22			+15.0				0		
20															

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AREA IKPIKPUK-KEY STATE or PROVINCE ALASKA PAGE No. 14
 LINE No.(s) 101 PARTY No. 1182 DATE 21 Day MAR Mo. 77 Yr. BOOK No. _____
 SURVEYOR J.S. RODMAN T.V. WEATHER: _____ P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		▲B.S. OF.S. -S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1					CONTD. FROM P. 12											
2		0		90									63.7	0	69	
3																
4										B.S.	69					
5		3960		90	02 55				+15.0	+18.0		81.6		Δ	66	
6					26 9 57 19				+15.0	+17.8				Δ		
7					26 9 48 54				+5.0					Δ		
8																
9		3135		89	37 57				-15.0	+5.3		87.0		0	63+825	
10					27 0 22 09				-15.0	+5.4				0		
11					27 0 10 52				-5.0					0		
12																
13													91.30			SEE COMPUTATION BY
14													CLOS: 87.06			SR 52 RECIPROCAL L
15													- 4.06			PROGRAM
16													4.3			
17																DISTANCE BY TRIANGULATION
18																FROM A PAT + A HELEN
19																
20																

TI-6888

WORKED BY _____ CHECKED BY 1st _____ 2nd _____

STADIA SURVEY NOTES

AREA IKPIKDUK - MEY CREEK STATE or PROVINCE North slope, ALASKA PAGE No. 15
 LINE No.(s) Rec. Anale-to-TP-19 PARTY No. 1182 DATE 21 Day 3 Mo. 77 Yr. BOOK No. _____
 SURVEYOR HERMAN FUENTES RODMAN TIM VAN ALLEN WEATHER: CLEAR & SUNNY "FINALLY" P.T.S. No. _____
SPRING HAS SPRUNG.

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD		
1															
2															
3															
4	T	0												Δ	TRI-station "PAT" -to-
5	NW	23,390. ⁹⁸		90°06'23"	AVG. 90°06'08"										TP-19-SP-63+825'-101
6		"		289°54'31"											
7															
8															
9	T	0												Δ	TP-19-SP-63+825'-101
10	SE	23,390. ⁹⁹		89°52'08"	AVG. 89°51'49"										TO TRI-STA. "PAT"
11		"		270°08'50"											
12															
13															
14															
15															
16															
17															
18															
19															
20															

TI-588B

WORKED BY _____ CHECKED BY 1st _____ 2nd _____