

STADIA SURVEY NOTES

AREA IKPIKPIK - KEY CREEK STATE or PROVINCE North Slope, ALASKA PAGE No. 1
 LINE No.(s) 103 PARTY No. _____ DATE 22 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		A.B.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1					LINE STARTS ON SP 42+400						LINE 100					
2					B.S.	SP 41	LINE	100	PG. 8			LINE #14				
3																
4																22.6 23.1
5										Elev.		30.6		41		LINE 100, PG 8
6																GROUND EL.
7	87°	1754		89	55	47		+6.21	+4.0			34.6	(29.0)	Δ	11	= SP 42+440
8	CHAIN	(1760)		270	09	20		+6.21	+3.9					Δ		LINE 100
9				270	20	54		+15.0						Δ		H.L. = 5.5
10																LINE INT
11		1320		89	59	41		-10.0		9.9		24.2			10	SP- 11+00 - 103
12																SP- 42+400 - 100
13		2640		89	52	08		-15.0	26°	8.9		25.6			9	PIPE MARKER
14																
15		3960		89	55	59		-15.0	+4.6	-10.2		24.2		0	8	
16				270	09	16		-15.0	+4.9	-9.8				0		16.2
17				269	59	41		-10.0						0		
18																
19																
20																

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STADIA SURVEY NOTES

AREA IKPIKPUK - KEY CREEK STATE or PROVINCE North Slope, ALASKA PAGE No: 2
 LINE No.(s) KD-103 PARTY No. 1182 DATE: 22 Day MAP Mo. 77 Yr. BOOK No. _____
 SURVEYOR Jael SWANSON RODMAN Tim VanAlst 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		A.B.S. OF.S. -S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion				INST.	ROD			
1																
2		2640		89 45 49				+15.0	-10.9	+4.0	28.5		Δ	6		
3				270 14 33				+15.0	-11.3	+3.3			Δ			
4				270 01 34				+5.0					Δ			
5																
6		1320		270 07 11				-5.0	+2.8	-2.2	26.3			7		
7																
8																
9		0		90				-5.0			23.5		0	6	15.3	
10																
11		4125		90 03 26				+15.0	+4.1	+18.8	41.8		Δ	2	+11.55	
12				269 57 16				+15.0	+3.3	+19.2			Δ			
13				269 48 51				+5.0					Δ			
14																
15		2805		90 02 36				-15.0	-2.1	-17.2	24.5			5		
16																
17		1485		89 59 45				-15.0	+1.1	14.8	26.2			4		
18																
19		165		90 44 40				-5.0	-2.0	-7.0	34.8			3		
20																

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STADIA SURVEY NOTES

AREA IKDIKPUK - Key Creek STATE or PROVINCE North Slope, ALASKA PAGE No. 3
 LINE No. (s) KD-103 KD-103 PARTY No. 1182 DATE 22 Day MAR Mo. 77 Yr. BOOK No. _____
 SURVEYOR Joel Swanson RODMAN Tim Van Allen 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		ABS. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion				INST.	ROD			
1		1155		90	12 56				-13.0	-4.3	-17	41.3	24.5	SP 2	PIPE	
2																
3		2475		90	03 35				-15.0	-2.8			24.5	SP 1	W.L.	
4																
5		3630		90	05 06				-15.0	-5.4	-20.4		21.2	0	4 TAIL	
6					269 54 50				-15.0	-5.5	-20.3			0	13-7	
7																
8		2640		89	56 16				+15.0	-2.9	+12.0	33.5	28.0	Δ	12 TAIL	
9					270 04 11				+15.0	-3.2	+11.6			Δ		
10					269 51 22				+5.0					Δ		
11																
12		1320		89	50 09				-15.0	+3.9	-11.2		22.3		8 TAIL	
13																
14		1320		89	52 53				-10.0	2.2	-7.3	26.3	21.0 -30.8		16 TAIL	
15																
16		2640		89	48 09				-15.0	+9.0	-5.9		27.6		20 TAIL	
17																
18																
19		3630		89	51 55				-15.0	+8.5	-6.2		27.4	S.S.	23 TAIL	
20					270 08 18				-15.0	+8.8	-6.2					

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STADIA SURVEY NOTES

AREA IKPIKPIK - KEY CREEK STATE or PROVINCE North Slope, ALASKA PAGE No. 4
 LINE No.(s) KD-103 PARTY No. 1182 DATE 22 Day MAR Mo. 77 Yr. BOOK No. _____
 SURVEYOR Joel Swanson RODMAN Jim VanAllen WEATHER: _____ P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		AB.S. OF.S. -S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1		2640		89 55 59					-15.0	+3.1	-11.8		21.8	0	4	TAIL
2				270 04 07					-15.0	+3.2	-11.2			0		
3																
4		3688		90 06 32					+15.0	+6.1	+20.8			Δ		SP 2+1213 (3-107)
5				269 55 01					+15.0	+5.3	+20.2	42.3		Δ		
6				90 05 43					+5.0	+6.1	20.8			Δ		
7				90 14 59												
8																
9																
10		4067		90 08 54					-10.0	+10.5	-20.2		22.1	0	6	
11				269 51 10					-10.0	+10.5	-20.1			0		
12				269 47 10					-5.0					0		
13																
14		3135		90 07 11					+6.0	+6.6	+12.3	24.3		Δ	8+	495
15				269 53 12					+6.0	+6.2	+12.0			Δ		
16																
17		3465		90 00 02					-6.0	-0.0	-5.8	28.6		0	11	PIPE = INT.
18				270 00 11					-6.0	+0.2	-5.6			0		SP 11 LINE 103 =
19												29.1				SP 42+400 LINE
20												28.6				100

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SEE PG. 1 FOR TIE

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AREA IKPIKPIK - MEY CREEK STATE or PROVINCE North Slope, ALASKA PAGE No. 5
 LINE No.(s) HD-103 PARTY No. 1182 DATE 23 Day MAR Mo. 77 Yr. BOOK No. _____
 SURVEYOR JOEL SWANSON RODMAN TIM 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		A.B.S. OF S. - S.S.	Station	REMARKS	
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD				
1																21.4	
2																	
3																	
4		3960		90	02 21				+6.0	+8.4		37.4	32.0	Δ	14	SP 42+440	
5					269	57 52			+6.0	+8.1				Δ		LINE 100	
6														Δ		SP-11+00-103	
7																PIPE MARLER	
8		2640		89	56 33				-15.0	+2.6	12.4	25.2	25.2		12		
9																	
10		1320		89	54 25				-10.0	+2.1	9.9		29.5		13		
11																	
12		1320		89	34 48				-15.0	+9.7	-5.3		32.1		15		
13																	
14		2640		89	54 21				-15.0	-10.5			26.9	0	16	19.6	
15					270	05 47			-15.0	-10.4				0		20.2	
16																	
17																	
18		2640		89	55 29				+15.0	+11.4		38.2	33.0	Δ	18		
19					270	04 47			+15.0	+16.2				Δ			
20					269	51 46			+15.0					Δ			

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STADIA SURVEY NOTES

AREA IKPIKDUK - KEY CREEK STATE or PROVINCE North Slope, ALASKA PAGE No. 6
 LINE No.(s) 103 PARTY No. 1182 DATE 23 Day MAR Mo. 77 Yr. BOOK No. _____
 SURVEYOR Joel SWANSON RODMAN TIM 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	Correction			Center Hair	INST.		
1		1320		90	12 45				-4.0	-4.7	-8.9	29.3	17	
2														
3		0		90					-5.5	-5.5		32.7	0	18 25.6 26.3
4														
5		2640		89	59 36				+6.0	+5.5		38.2	Δ	20 H.I. = 5.2
6				270	00 35				+6.0	+5.4			Δ	
7														
8		1320		269	57 30				-4.0	-3.3	-7.2	31.0		19
9														
10		1320		89	48 17				-15.0	+4.5	-10.5	27.7		21
11														
12		2640		89	50 30				-15.0	-7.6		30.6	0	22 23.7
13				270	09 29				-15.0	-7.6			0	24.4
14				270	03 31				-10.0				0	
15														
16		1320		89	47 28				+15.0	+10.2		40.8	Δ	23
17				270	12 36				+15.0	+10.1			Δ	
18														
19														
20														

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STADIA SURVEY NOTES

AREA IKPIKPUK - Key Creek STATE or PROVINCE North slope, ALASKA PAGE No. 7
 LINE No.(s) KD-103 PARTY No. 1132 DATE 23 Day MAR Mo. 77 Yr. BOOK No. _____
 SURVEYOR Joel SWANSON RODMAN TIM 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		1320		269	43 22			-3.0	-6.4	-9.4	40.8	31.4	24	
2														
3		2640		89	48 32			-15.0	8.8	-6.0		34.8	25	
4														
5		2805		89	44 29			-15.0	7.5			38.9	0	25 + 165
6				270	16 14			-15.0	-1.6				0	31.7 32.5
7														
8		2035		89	38 03			+15.0	+1.9		40.8		Δ	26 + 880 - LINE 103
9				270	22 03			+15.0	+1.9				Δ	= 14 + 1273
10				270	05 15			+5.0					Δ	LINE 101
11														M.I = 6.4
12		880		89	43 29			-15.0	+4.2	-10.8		30.1	26.	
13		STADIA												
14		1367		90	05 38			-6.0	-8.2			32.6	0	SP 16 26.3
15		STADIA		269	54 21			-6.0	-8.2				0	LINE 101 PG 4
16														25.5
17														26.3
18														TIE 0.8
19		440		90° 18'	20"			-4.0	+2.3	-6.3		34.5	SS	27
20														

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STADIA SURVEY NOTES

6.4 H.I.

AREA IKPIKDUK - Key Creek STATE or PROVINCE North Slope, ALASKA PAGE No. 8
 LINE No.(s) 103 PARTY No. 1182 DATE 23 Day MAR Mo. 77 Yr. BOOK No. _____
 SURVEYOR Joel Swanson RODMAN TWO 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		A.B.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1																
2																
3		1367		90	05 38				+6.0	+8.2		38.8	30.6		SP 16	LINE 101
4				269	54 21				+6.0	+8.2			Δ		SP 26 + 880' = SP 14 + 1273	
5		0		90					-6.4				32.4	0	SP 26 + 880' PIPE	
6																
7		4400		90	05 37				+6.0	+12.8		45.1	40.0	Δ	30	H.I. = 5.1
8				269	54 35				+6.0	+12.5			Δ			
9																
10																
11																
12		2640		89	58 20				-15.0	+1.3	-13.6		31.3		28	
13																
14		1320		270	04 06				-15.0	+1.6	-13.4		34.3		29	
15																
16		1320		90	15 44				-4.0	-6.0	-10.0		35.0		31	
17		2640		90	06 22				-4.0	-4.9	-8.7		31.3		32	
18		3960		89	57 42				-4.0						33	
19																
20																

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STADIA SURVEY NOTES

AREA IKPIK RUK - KEY CREEK STATE or PROVINCE North Slope, ALASKA PAGE No. 9
 LINE No.(s) 103 PARTY No. 1182 DATE 23 Day MAR Mo. Yr. BOOK No.
 SURVEYOR Joel SWANSON RODMAN TIM 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		AB.S. OF.S. -S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion			Center Hair	INST.			
1															
2		3960		89 57 34				-4.0	-0.9		44.2	0	33		
3				270 02 26				-4.0	-0.9			0			
4															
5		3960		90 01 24				+15.0	+16.3		60.0	54.5	Δ	36 H.L. = 5.5	
6				269 59 21				+15.0	+15.4				Δ		
7															
8		2640		269 47 04				-4.0	-9.9	-13.9		50.1		34	
9															
10		1320		269 25 24				-4.0	-13.3	-17.3		46.2		35	
11															
12		1320		89 31 32				-6.0	+5.0			65.0	0	37	
13				270 28 09				-6.0	+4.8				0		
14															
15		4455		90 12 18				+6.0	+29.3		94.0		Δ	40+ 49.5	
16				269 42 07				+6.0	+28.8				Δ		
17															
18															
19															
20															

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STADIA SURVEY NOTES

AREA IKPIK'DUK - KEY CREEK STATE or PROVINCE North Slope, ALASKA PAGE No. 10
 LINE No.(s) 103 PARTY No. 1182 DATE 23 Day MAR Mo. Mo. Yr. BOOK No.
 SURVEYOR JOEL SWANSON RODMAN TIM 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		AB.S. OP.S. -S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1																
2		3135		90 26 18					-4.0	-24	-27.8	66.3		38		
3																
4		1815		90 33 38					-4.0	-17.8	21.7	72.3		39		
5																
6		495		90 39 26					-5.0	-5.3	10.3	83.4		40	PIPE	
7																
8		825		89 57 25					-6.0	-5.4		88.6	0	41		
9				270 02 46					-6.0	-5.3			0			
10																
11		2475		269 34 55					+6.0	+24.5		1130	107.5	Δ	8	TAIL H.I. = 5.5
12				90 25 55					+6.0	+24.2				Δ		
13																
14		1320		90 38 51					-3.0	-14.9	-17.9	95.0		4		
15																
16		1320		89 47 05					-3.0	+5.0	+2.0	114.9		12		
17																
18		2640		89 34 50					-4.0	+9.3	15.5	128.4		16		
19																
20																

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AREA IKPIKPIK - KEY CREEK STATE or PROVINCE North Slope, ALASKA PAGE No. 11
 LINE No.(s) MD-103-77-B-1182 PARTY No. 1182 DATE 23 Day 3 Mo. 77 Yr. BOOK No. _____
 SURVEYOR Joel Swanson RODMAN Tim VanAllen WEATHER: _____ P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		A.B.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1																
2																
3	<u>A</u>	<u>0</u>														
4	<u>SP-8-76</u>	<u>21395</u>		<u>90° 13' 03"</u>												<u>GROUP-8-TAIL SPAD.</u>
5	<u>INT-101-103</u>			<u>269° 46' 57"</u>												<u>Δ LAT. 70° 19' 29.759</u>
6																
7	<u>INT 101-103</u>	<u>21395</u>		<u>89° 49' 23"</u>												
8	<u>SP-8</u>			<u>270° 10' 53"</u>												
9		<u>0</u>														
10																
11																<u>SP-26+880' LINE 103</u>
12																<u>SP-14+1273' LINE 101</u>
13																<u>REF-TO PAGE 8 LINE #5 EL. 32.4</u>
14																<u>32.32</u>
15																<u>32.40</u>
16																<u>Misclosure - 08</u>
17																<u>LAT. 70° 23' 00.046</u>
18																
19																
20																

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