

RERVN

STADIA SURVEY NOTES

AREA KUK RIVER STATE or PROVINCE ALASKA PAGE No. R-1
 LINE No.(s) 8 PARTY No. 1182 DATE 25 Day FEB Mo. 77 Yr. BOOK No. _____
 SURVEYOR JOEL SWANSON RODMAN D.S. 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 72.6			
1												20.9			SP.1-7	ROD +1.5
2		990		89 31 29					+16.5		18.3		▲		T.P.3	(TAIL)
3				270 28 38									▲			
4				67												
5																
6		2640		89 58 46					-15.0		-13.9	67.0	⊙		11	(TAIL)
7				270 01 22					-15.0				⊙			
8																
9		1320		270 31 08					+15.0		-3.1	70.1	▲		15	(TAIL)
10				89 29 30									⊙			
11																
12																
13		2970		89 55 42					-5.9		-1.8	68.3	⊙		24	(TAIL)
14				270 04 39					-5.9				⊙			
15																
16	6 S.P.	18		270 06 34					+5.9		+2.3	70.6	64.4	▲	54	H.I. = 6.2
17		1920		89 53 56					+5.9					▲		
18																
19																
20																

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STADIA SURVEY NOTES

AREA KUK RIVER STATE or PROVINCE ALASKA PAGE No. A-2
 LINE No.(s) 8 PARTY No. 1182 DATE 25 Day FEB Mo. 1977 Yr. BOOK No. _____
 SURVEYOR J. SWANSON RODMAN D.S. 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 TOP	Reading	Correc-tion			Center Hair	INST.		
1		1030	90 00	36	15			-4.6	-4.8		65.8	0	14	
2		2060	269 59	35				-4.6				0		450
3														
4			269 58	34				+15.0	+16.3	82.0		Δ		
5		2725	90 02	10				+15.0				Δ		H.I. = 50
6														
7		830	89 49	27				-15.0	-9.9		72.2	S.S.	14	
8		1650												
9		1320	89 38	40				-15.0	-6.8		75.3	S.S.	13	
10														
11		90	90					-5.0	-5.0		77.1		9	
12														
13		990	89 29	10				-15.0	-6.1		76.0	S.S.	6	
14														
15														
16			90 08	06				-7.3	-14.0		68.0	0	SP-1	TOP OF PIPE
17		2970	269 52	06				-7.3				0		(TARGET)
18														
19		1320	89 17	21				+7.3	-9.3	58.7		Δ	SP-2	
20			270 43	27				+7.3				Δ		

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STADIA SURVEY NOTES

AREA KUK RIVER STATE or PROVINCE ALASKA PAGE No. 03
 LINE No.(s) 8 PARTY No. 1182 DATE 25 Day FEB Mo. 1977 Yr. BOOK No. _____
 SURVEYOR J. SWANSON RODMAN D.S. 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																
2		1320		269 58 27					+16.0	-16.7		42.1	0	SP.3		
3				90 02 09					-16.0				0		41.6	
4																
5																
6																
7																
8																
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
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STADIA SURVEY NOTES

AREA KUK RIVER STATE or PROVINCE ALASKA PAGE No. 4
 LINE No.(s) 8 PARTY No. 1182 DATE 21 Day FEB Mo. 1977 Yr. BOOK No. _____
 SURVEYOR JOEL SWANSON RODMAN T.V. WEATHER: _____ P.T.S. No. _____

LINE	Bearing of Sight	Stadio 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	1155?	1320		89 43 02				-15.0	-8.4	-8.4		72.6	0	SP1	
2				70 17 05				-15.0	-8.4				0		
3															
4				29 16 04										SP3	
5				270 36 08											
6				359 51 09											
7															
8		1320		88 58 10				+15.0	-8.8	-8.8		63.8		Δ SP2	
9				271 02 02				+15.0	-8.8					Δ	
10				360 00 10											
11															
12		1320		90 04 12				+15.0	-16.6	-16.6		42.1			SEE PERUN P63 FOR ELEV.
13				269 55 31				-15.0	-16.7			47.2	0		
14				359 59 43									0	SP3	41.4
15															
16		1320		90 05 06				+15.0	+16.9	+16.7		58.8		Δ SP4	
17				269 55 55				+15.0	+16.5					Δ	
18				360 00 61											
19															
20															

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STADIA SURVEY NOTES

AREA KUK RIVER STATE or PROVINCE ALASKA PAGE No. 5
 LINE No.(s) 8 PARTY No. 1182 DATE 21 Day FEB Mo. 1977 Yr. BOOK No. _____
 SURVEYOR J. SWANSON 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		AB.S. OF.S. -S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1		1320	88	56	47				-15.0	+9.3	+9.4		68.2	0	SP5	67.5
2			271	03	31				-15.0	+9.4				0		
3			359	59	78											
4		495	89	48	11				+5.0	+3.3	+3.3	71.5		A	5-2	
5			270	17	15				+5.0	+3.2				A		
6			360	00	26											
7																
8		825	90	57	44				-10.0	-23.8	-23.9		42.6	0	6	-46.9
9			269	02	05				-10.0	-23.9				0	6	
10			359	59	49											
11																
12		2640	89	19	27				+5.0	-16.3	-16.5	31.1		A	8	
13			270	41	07				+15.0	-16.7				A	8	
14			360	00	34											
15																
16		1320	90	28	19				-15.0	-25.8			5.3		7	
17																
18		1320	89	08	45				-15.0	+4.7	+4.8		35.9	0	9	85.4
19			270	51	42				-15.0	+4.9				0	9	
20			359	59	87											

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AREA KUK RIVER STATE or PROVINCE ALASKA PAGE No. 6
 LINE No.(s) 8 PARTY No. 1182 DATE 21 Day FEB Mo. 1977 Yr. BOOK No. _____
 SURVEYOR J. SWANSON 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		1320	89	48	50				+15.0	+10.7		46.5	Δ	10	
2			270	11	30				+15.0	10.5			Δ		
3			359	59	80										
4		1320	89	09	09				-15.0	+4.6		51.1	○	11	50.6
5			270	51	03				-15.0	+4.6			○	11	
6			360	00	12										
7															
8			90	30	10				+15.0	+26.6		77.7	Δ	12	v
9		1320	90	30	25				+15.0	26.6			Δ	12	
10			269	29	49										
11			359	59	74										
12															
13		1320	89	47	22				-15.0	10.1 2.3		67.6	○	13	67.1
14			270	12	42				-15.0	-10.1			○	13	
15			359	59	64										
16															
17		1320	89	29	31				+15.0	13.3		70.8	Δ	14	
18			270	30	38				+15.0	13.2			Δ		
19			359	59	69										
20															

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STADIA SURVEY NOTES

AREA KUK RIVER STATE or PROVINCE ALASKA PAGE No. 7
 LINE No.(s) 8 PARTY No. 1182 DATE 21 Day FEB Mo. 1977 Yr. BOOK No. _____
 SURVEYOR J. SWANSON 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. ○F.S. -S.S.	Station	REMARKS	
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD				
1		1320	89 33 52							-15.0	-4.9	-5.0			0	15 15	
2			270 25 52							-15.0	-5.1				0		
3			259 59 44														
4																	
5		1320	89 34 48							-15.0	-5.3	-5.2		65.7	0	15	65-2
6			270 25 52							-15.0	-5.0				0		
7			360 00 40														
8																	
9		1320	89 37 23						+14.8	+15.0	+6.1		71.8		Δ	16	
10			270 22 31						+14.8	+15.0	6.1				Δ		
11			359 59 54														
12																	
13		1320	89 42 47							-15.0	-8.4		63.5	0	17	63-1	
14			270 17 47							-15.0	-8.1				0		
15			359 59 94														
16																	
17		1320	89 28 57							+15.0	+3.0				Δ	18	
18			270 31 33							+15.0	+2.8		66.5		Δ		
19			359 59 90														
20																	

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AREA KUK RIVER STATE or PROVINCE ALASKA PAGE No. 8
 LINE No.(s) 8 PARTY No. 1182 DATE 21 Day FEB Mo. 1977 Yr. BOOK No. _____
 SURVEYOR J. SWANSON RODMAN T.V. WEATHER: _____ P.T.S. No. _____

LINE	Bearing of Sight	Stadio 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		1320	90	14	46				-15.0	-20.6		46.0		0	19 45.5	
2			269	45	58				-15.0	-20.4				0	19	
3			360	00	44											
4																
5		1320	89	39	33				+15.0	+7.1	52.9			Δ	20	
6			270	21	22				+15.0	6.8				Δ	20	
7			360	00	55											
8																
9		1320	88	59	52				-15.0	+8.1		66.1		0	21 60.6	
10			271	00	27				-15.0	8.2				0	21	
11			359	59	79											
12																
13		1320	89	44	38				+15.0	+9.1	70.0			Δ	22	
14			270	15	58				+15.0	8.8				Δ	22	
15			359	54	96											
16																
17		1320	89	48	44				-15.0	-10.6		59.5		0	23	
18			270	11	46				-15.0	-10.4				0	59.1	
19			359	59	90											
20																

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AREA KUK RIVER STATE or PROVINCE ALASKA PAGE No. 9
 LINE No.(s) 8 PARTY No. 1182 DATE 21 Day FEB Mo. 1977 Yr. BOOK No.
 SURVEYOR JOEL SWANSON 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		Δ B.S. OF.S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1		1320		89 36 50					+15.0	+6.1		65.4		Δ	24	24
2				270 24 05					+15.0	5.7				Δ		
3																
4				89 14 42										0		
5				270 44 33										0		
6				89 58 75												
7																
8																
9		1320		89 14 27					+15.0	+2.5		68.0		0	25	67.6
10				270 46 00					+15.0	2.7				0		
11				360 00 27												
12																
13		1320		89 48 06					+15.0	+10.4		78.3		Δ	26	
14				270 12 35					+15.0	10.1				Δ		
15				360 00 41												
16																
17		1320		89 29 48			89 29 39		-15.0	-3.3		75.0		0	27	74.6
18				270 30 41			270 30 40		-15.0	-3.2				0	27	
19				89 59 59			354 59 79									
20																

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STADIA SURVEY NOTES

AREA KUK RIVER STATE or PROVINCE ALASKA PAGE No. 10
 LINE No.(s) 8 PARTY No. 1182 DATE 23 Day FEB Mo. 1977 Yr. BOOK No. _____
 SURVEYOR J. SWANSON 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		Δ B.S. OF.S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1		1320	89 58	41	-			+5.9	1.54	+5.2	80.2	75.0	Δ	28	ROD ON 27	
2			270 02	20				+5.9	+5.0				Δ			
3			360 00	61												
4																
5		1320	89 41	44	+			-15.9	-8.9	-8.8		71.4	0	29	HIGH ROD 0.9	
6			270 18	43				-15.9	-8.7				0		71.0	
7			359 59	87												
8																
9		1320	89 11	49	-			+15.9	-2.6	-2.7	68.7		Δ	30	HIGH ROD 0.9	
10			270 48	33				+15.9	-2.7				Δ			
11			359 59	82												
12		00	98 00	0	0			-6.4		-6.4		62.3	0	30	62.0	
13			270 00					-6.4					0			
14																
15			89 31	43	-			+16.6	+5.7	+5.7	68.0		Δ	31	HIGH ROD 1.6	
16		1320	270 28	28				+16.6	+5.7				Δ			
17			359 39	71												
18								-15.0	+3.9	-3.8		64.2	0	32	63.8	
19		1320	89 31	08	+			-15.0	+3.7				0			
20			270 29	21												

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STADIA SURVEY NOTES

AREA KUK RIVER STATE or PROVINCE ALASKA PAGE No. 11
 LINE No.(s) 8 PARTY No. 1182 DATE 24 Day 2 Mo. 1977 Yr. BOOK No. _____
 SURVEYOR J. SWANSON 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		ABS. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1		1320	89	24	22	-			+15.0	+2.1	+1.9	66.1		Δ	33	
2			270	34	25				+15.0	+1.8				Δ	33	
3			360	00	47											
4																
5		1320	89	24	37	+			-15.0	-1.4	-1.3		64.9	0	34	64.5
6			270	36	11				-15.0	-1.1				0	34	
7																
8		1320	89	55	28				+15.0	+13.2	+13.1	78.0		Δ	35	
9			270	05	08				+15.0	+13.0				Δ	35	
10																
11		1320	89	33	25	+			-15.0	-4.8	-4.6		73.4	0	36	73.1
12			270	27	40				-15.0	-4.4				0	36	
13																
14		1320	89	36	25	-			+15.0	+5.9	+5.7	79.1		Δ	37	
15			270	24	38				+15.0	+5.5				Δ	37	
16																
17		1320	89	31	11	+			-15.0	-3.9	-3.8		75.3	0	38	75.0
18			270	29	18				-15.0	-3.7				0	38	
19																
20																

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STADIA SURVEY NOTES

AREA KUK RIVER STATE or PROVINCE ALASKA PAGE No. 12
 LINE No.(s) 8 PARTY No. 1182 DATE 24 Day FEB Mo. 1977 Yr. BOOK No. _____
 SURVEYOR _____ RODMAN _____ 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		1320	89	44	22	-			+15.0	+9.0	+8.8	84.1	77.6	Δ	39	H.I. = 6.5
2			270	16	34				+15.0	+8.6				Δ		
3					56											
4			9											0	40	
5		1320	88	58	55				-15.0	-14.6	-14.6		69.5	0		69.2
6			270	01	01				-15.0	-14.6						
7																
8																
9		1320	89	31	58				+15.0	+4.2	+4.1	73.6		Δ	41	H.I. = 6.3
10			270	28	47				+15.0	+3.9				Δ		WATER LEVEL LAKE
11																
12		1320	90	00					-6.3				67.3	0	41	SE
13		1320	270	00					-6.3						42	W.L.
14																
15		2640	90	00					-6.3				67.3	0	43	W.L.
16		1320	270	00					-6.3					0		66.9
17																
18																
19																
20																

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STADIA SURVEY NOTES

AREA KUK RIVER STATE or PROVINCE ALASKA PAGE No. 13
 LINE No.(s) 8 PARTY No. 1182 DATE 25 Day FEB Mo. Yr. BOOK No. _____
 SURVEYOR J. SWANSON RODMAN D.S. 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.			
1												Δ	43	8-5 π	
2		0		90° 00				+5.6			72.9	Δ			
3															
4		1320		89 58 20				-5.0			68.7		44		
5															
6		2640		89 29 14				-15.0	+8.8	9.0	81.9	0	45	81.2	
7				270 31 21				-15.0	9.2			0			
8															
9				89 58 13				+10.0				Δ	46		
10				270 02 03								Δ			
11				270 61 14											
12															
13															
14				89 57 59											
15				270 09 19											
16				89 57 54											
17				270 09 19											
18				66 78											
19															
20															

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STADIA SURVEY NOTES

AREA KUK RIVER STATE or PROVINCE ALASKA PAGE No. 14
 LINE No.(s) 8 PARTY No. 1182 DATE 25 Day FEB Mo. 1977 Yr. BOOK No. _____
 SURVEYOR J. SWANSON RODMAN D-S, 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		▲B.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion				INST.	ROD			
1		1320	89	58	31				+10.0	9.4		91.1	Δ	46		
2			270	02	34				400	9.0			Δ			
3			260	00	65											
4																
5		1320	89	52	13				-15.0	-12.0		79.1		47		
6																
7		2640	89	56	57				-15.0			78.6		48		
8																
9		3960	89	48	30				-15.0	-1.4		89.8	0	49	88.5 ✓	
10			270	11	47				-15.0	1.3			0			
11			359	59	77											
12																
13		2640	269	24	10				+15.0	+35.5		124.9	Δ	51		
14			90	26	55					35.1			Δ			
15																
16		1320	90	14	00				-15.0			104.6		50		
17		0	90						-6.3			118.6		50	X	
18																
19		1320	89	39	20				-5.9	+2.1		127.0	0	52	126.0	
20			270	20	51				-5.9	+2.1			0			

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STADIA SURVEY NOTES

AREA KUK RIVER STATE or PROVINCE ALASKA PAGE No. 15
 LINE No.(s) 8 PARTY No. 1182 DATE 25 Day FEB Mo. 1977 Yr. BOOK No. _____
 SURVEYOR J. SWANSON RODMAN D.S. 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		1320	270	00	24				+5.9	5.7		132.9		Δ	53	
2			90	00	24				+5.9	5.9				Δ		
3																
4		1320	89	51	51	+			-10.0				126.0		54	
5																
6		2640	89	53	41	+			-15.0				122.9		55	
7																
8		3960	89	56	08				-15.0	-10.2			122.9	0	56	121.3
9			270	04	15				-15.0	-9.8				0		
10																
11		1320	89	57	18				+5.0	+3.9		126.7		Δ	57	
12			270	03	25				+5.0	3.7				Δ		
13																
14		1320	89	59	22	+			-15.0		-14.8		111.9		58	
15																
16		2640	90	14	25	-			-15.0		-26.0		100.8		59	
17																
18		3960	90	00	41				-15.0	-15.5			111.3	0	60	109.1
19			269	59	27				-15.0	15.3				0		
20																

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STADIA SURVEY NOTES

AREA KUK RIVER STATE or PROVINCE ALASKA PAGE No. 16
 LINE No.(s) 8 PARTY No. 1182 DATE 25 Day FEB Mo. 1977 Yr. BOOK No. _____
 SURVEYOR J. SWANSON RODMAN D.S. 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. ○F.S. -S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1		1320	89	1325					+15.0	+2.9		108.3		Δ	61	
2			270	47 03					+15.0	-3.1				Δ		
3																
4		1320	89	320 53 41	89	35 07			+15.0	+4.7		113.0	0	Δ	62	ANGLES RETURNED
5			270	06 40	270	25 25			-5.0	+4.8			0	Δ		2/28 110.8
6																
7		3960	89	58 53					+15.0	+13.4		126.3		Δ	65	
8			270	01 13						13.3				Δ		
9				59 66												
10																
11		2640	90	03 31					+15.0	-17.6		108.8		Δ	63	
12																
13		1320	90	02 34					-15.0	-15.9		110.4		Δ	64	
14																
15		1320	89	38 20					-15.0	-6.6		119.7		Δ	66	
16																
17		2640	89	55 17					+15.0			116		Δ	67	
18																
19		3960	90	03 39					-15.0				0	Δ	68	SEE RETURN
20			269	35 40									0	Δ	68	

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STADIA SURVEY NOTES

AREA KUK RIVER STATE or PROVINCE ALASKA PAGE No. 17
 LINE No.(s) 8 PARTY No. 1182 DATE 26 Day FEB Mo. 1977 Yr. BOOK No. _____
 SURVEYOR J. SWANSON RODMAN D.S. 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. OF.S. -S.S.
1	1920	2960	90	04	31				-15.0	19.9			106.9	0	68	T 65
2			269	56	14				-15.0	-19.0				0		104.7
3			360	00	45											
4																
5		3960	89	48	44				+15.0	+1.7	+1.3	108.1		Δ	71	
6			270	12	00				+15.0	0.8				Δ	71	
7					44											
8																
9		2640	89	45	30				-15.0				104.4		69	
10																
11		1320	89	40	50				-10.0				105.5		70	
12																
13		1320	89	36	39				-5.0	4.0	+4.1		112.1	0	72	110.6
14			270	23	55					+4.2				0		
15					34											
16																
17		1320	89	55	09				+10.0	18.1		120.2		Δ	73	
18			270	05	18					7.9				Δ	73	
19																
20																

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STADIA SURVEY NOTES

AREA KUK RIVER STATE or PROVINCE ALASKA PAGE No. 18
 LINE No. (s) 8 PARTY No. 1182 DATE 26 Day FEB Mo. 1977 Yr. BOOK No. _____
 SURVEYOR J. SWANSON RODMAN D.S. WEATHER: _____ P.T.S. No. _____

3630
 165

 3795
 165

 3960
 2960

 2640
 990

 3630
 3630
 370

 3960

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		1320		90 00	34				-15.0	-15.2		105.0		74		
2																
3		2640		90 02	40				+15.0	-16.9		103.3		75		
4																
5		3960		90 00	03				-15.0	-14.6		105.5	0	76	103.4	
6				270 00	09					-14.5			0	76		
7																
8		3960		89 44	42				+15.0	-3.0	102.3		4	79		
9				270 15	47					-3.5			4	79		
10					29											
11																
12		2640		89 34	02				-15.0	+5.1		107.4		77		
13																
14		1320		89 30	01				-15.0	-3.5		98.9		78		
15					42 51											
16		1320		89 34	58				-10.0	-3.4		98.9		80		
17		2640		89 39	22				-15.0	+1.0		103.3		81		
18																
19		3960		89	90 37 29				-15.0	+9.1		111.5	0	81	81 + 9.90	
20		3630		270 22 5 2					9.4				0	81	109.6	

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STADIA SURVEY NOTES

AREA KUK RIVER STATE or PROVINCE ALASKA PAGE No. 19
 LINE No.(s) 8 PARTY No. 1182 DATE 26 Day FEB Mo. 1977 Yr. BOOK No. _____
 SURVEYOR J. SWANSON RODMAN D.S. WEATHER: _____ P.T.S. No. _____

Rod down
0.2 on
Δ

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	13 20																
2	+33 0	1650		90 02 28					115.0	+16.3		127.7		RS 81+990			
3	165 0			269 58 06				+15.2	16.1					Δ 83			
4															Δ 83		
5																	
6		1320		89 54 55					-15.0		-13.0		114.7		82		
7																	
8		1320		89 57 18					-15.0		-13.9		113.8		84		
9																	
10		2640		89 58 37					-15.0		-13.8		113.9		85		
11																	
12	USE	3960		89 59 23		USED			-15.0	-14.0			113.6	0	86		
13				270 00 20						14.3				0			
14				359 59 43													
15				90 00 58										0	86		
16				270 00 44										0	86		
17				359 01 52													
18		3960		89 59 28					-15.0					0	86		
19				270 00 18										0	86		
20				359 59 46													

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STADIA SURVEY NOTES

AREA KUK RIVER STATE or PROVINCE ALASKA PAGE No. 20
 LINE No.(s) 8 PARTY No. 1182 DATE 26 Day FEB Mo. 1977 Yr. BOOK No. _____
 SURVEYOR J. SWANSON RODMAN D.S. WEATHER: _____ P.T.S. No. _____

check

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		3960		89 49 06					+15.0	+2.1		115.3		Δ	89	
2				270 11 29						1.4				Δ	89	
3				360 00 35												
4																
5		2640		89 42 04					-15.0	-1.1			114.3		87	
6																
7		1320		89 33 21					-15.0	-4.7			110.6		88	
8																
9		1320		89 46 55					-10.0	-4.9			110.4		90	
10																
11		2640		89 48 34					-5.0		+3.9		119.3		91	
12																
13		3960		89 39 36					-15.0	+8.8			124.3	0	92	121.8
14				270 20 36						9.1				0	92	
15				12												
16																
17		3960		89 38 52					+15.0	-9.7		114.4		Δ	95	
18				270 21 29					+15.0	-10.1				Δ		
19																
20																

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STADIA SURVEY NOTES

AREA KUK RIVER STATE or PROVINCE ALASKA PAGE No. 21
 LINE No.(s) 8 PARTY No. 1182 DATE 26 Day FEB Mo. 1977 Yr. BOOK No. _____
 SURVEYOR J. SWANSON RODMAN D.S. 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	89	43	45				-15.0		-2.4		112.1	93	
2															
3		1320	89	49	53				-15.0		-11.1		103.3	94	
4															
5		1320	90	01	35				-5.0		-5.6		108.9	96	
6															
7		2640	89	53	55				-10.0		-5.2		109.2	97	
8															
9		3960	89	53	39				-15.0	-7.4			107.3	98	104.8
10			270	06	47					6.9				98	
11															
12		2640	89	41	16				+15.0	+0.5		107.6		100	
13			270	19	19				+15.0	0.0					
14					35										
15		1320	89	54	24				-5.0		-2.8		104.8	99	
16															
17		1320	90	00	18				-5.0		-5.1		102.5	101	
18		2640	89	59	04				-15.0		-14.1		93.4	102	
19															
20															

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STADIA SURVEY NOTES

AREA KUK RIVER STATE or PROVINCE ALASKA PAGE No. 22
 LINE No.(s) 8 PARTY No. 1182 DATE 26 Day FEB Mo. 1977 Yr. BOOK No. _____
 SURVEYOR J. SWANSON RODMAN D.S. 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		AB.S. OF.S. -S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion				INST.	ROD			
1		3960	89	54	11				-10.0	-2.6		105.0	0	103		
2			270	06	28					-2.2			0		102.1	
3																
4		4785	89	52	30								Δ	106-3		
5			89	54	02				+15.0	+6.2		110.8	Δ			
6			270	06	35					5.4						
7																
8		3465	89	55	14				-15.0	-9.9		100.8		104		
9																
10		2145	89	52	44				-15.0	-10.4		100.4		105		
11																
12		825	90	02	37				-10.0	-10.6		100.1		106		
13																
14		495	90	20	34				-5.0	-8.0		102.8		107		
15																
16		1815	90	05	41				-5.0	-7.9		102.8		108		
17																
18		3135	89	59	26	90	00	29	-10.0	-10.2		100.9	0	109		
19			269	59	47	270	00	18	-10.0	9.5			0		98.5	
20			359	59	43	360	00	47								

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STADIA SURVEY NOTES

AREA KUK RIVER STATE or PROVINCE ALASKA PAGE No. 23
 LINE No.(s) 8 PARTY No. 1182 DATE 26 Day FEB Mo. 1977 Yr. BOOK No. _____
 SURVEYOR J. SWANSON RODMAN D.S. 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		
														109	
1		1320	89	47	26				+15.0	+10.1		110.9		Δ	110
2			270	13	05					9.9				Δ	110
3			360	00	31										
4		1320	90	00	31				-5.0		-5.2	105.8			111
5															
6		2640	89	57	47				-10.0		-8.2	102.8			112
7															
8		3960	89	55	28	89	55	35	-15.0	-9.5		101.6	Δ		113 98.7
9			270	04	31	270	04	48		9.1			Δ		
10			359	59	59	360	00	23							
11		3960	89	52	08				+15.0	+5.6		106.7		Δ	116
12			270	08	41					4.7				Δ	116
13			360	00	59										
14		2640	89	46	47				-15.0		-4.7	102.0			114
15		1320	89	59	26				-5.0		-4.7	101.9			115
16		1320	89	59	12				-5.0		-4.7	102.0			118
17		2640	89	59	25			USED	-5.0		-4.4	102.3			118
18		3960	89	51	31	89	52	05	-15.0	-5.6					
19			270	08	20	270	08	25		-5.0		106.4	Δ		119 98.9
20			359	59	51	360	00	30							

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STADIA SURVEY NOTES

AREA KUK RIVER STATE or PROVINCE ALASKA PAGE No. 24
 LINE No.(s) 8 PARTY No. 1182 DATE 26 Day FEB Mo. 1977 Yr. BOOK No. _____
 SURVEYOR J. SWANSON RODMAN D.S. 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		660	89 59	23				45.0	+4.9		1063	100.7	Δ	119+660 = S.P. 17 - 49		
2			270 00	37					4.9				Δ		H.I = 5.6	
3																
4		660	89 57	05				-5.0		-4.4		101.9		120		
5																
6		1980	89 48	35				-10.0		-3.3		103.0		121		
7																
8		3300	89 46	46				-15.0	-2.1			104.4	0	122	101.4	
9			270 13	35					1.7				0			
10																
11		2640	89 51	19				+15.0		8.1	112.5		Δ	124		
12			270 08	56					+8.0				Δ	124		
13																
14		1320	89 53	15				-5.0		-2.4		110.1		123		
15																
16		1320	89 56	31				-5.0		-3.6		108.9		125		
17		2640	89 53	20				10.0					0	126		
18		2640	89 53	09				-10.0	-4.6			108.1	0	126	105.1	
19			270 07	24					4.2				0			
20																

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STADIA SURVEY NOTES

AREA KUK RIVER STATE or PROVINCE ALASKA PAGE No. 25
 LINE No.(s) 8 PARTY No. 1182 DATE 27 Day FEB Mo. 1977 Yr. BOOK No. _____
 SURVEYOR J. SWANSON RODMAN D. S. 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			Δ B.S. OF S. - S.S.
1		3960	89	45	05				115.0	-2.5		105.2		Δ	129	
2			270	15	35					3.3				Δ		
3																
4		2640	89	54	56				-15.0	-11.0		94.2			127	
5																
6		1320	89	58	58				-10.0	-9.6		95.6			128	
7																
8		1320	90	07	23				-10.0	-12.8		92.4			130	
9																
10		2640	89	58	18				-15.0	-13.5		91.7			131	
11																
12		3960	90	00	17				-15.0	-15.0		90.5		0	132	876
13			270	00	18					14.3				0		
14																
15		3960	89	58	05				115.0	112.5		102.8		Δ	135	
16			270	02	12					12.1				Δ		
17																
18		2640	89	57	09				-15.0	-12.7		90.2			133	
19																
20		1320	89	52	18				-15.0	-12.0		90.8			134	

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STADIA SURVEY NOTES

AREA KUK RIVER STATE or PROVINCE ALASKA PAGE No. 26
 LINE No.(s) 8 PARTY No. 1182 DATE 27 Day FEB Mo. 1977 Yr. BOOK No. _____
 SURVEYOR J. SWANSON RODMAN D-S 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		1320		90 02 51					-15.0		-16.1	86.8		136		
2																
3		2640		89 59 57					-10.9		-10.5	92.8	0	137	89.8	
4				270 00 38						-10.3			0			
5																
6		985		89 59 47					+8.10	+8.0		100.2		Δ		
7		692		89 47 12					+13.0					Δ		
8		1384		270 01 04					+8.1	7.6				Δ		
9																
10		2630		90 03 53					-18.5	-4.6		95.8	0			
11				89 53 10					-10.0				0		92.8	
12				269 56 37					-1.8	4.2			0			
13																
14		1212		90 07 52					+2.82	+8.2		103.8		Δ	Δ GALI	
15		2424		89 57 29					+10.0					Δ		
16				269 52 48					+2.82	7.8				Δ		
17																
18		0		90 —					-5.2			98.6	0	95.8	Δ GALI	
19												95			30th ENG.	
20												126		0.8	116	

74.65
 13.50
 13.15
 18
 4
 15.00
 18.5
 18
 15
 40
 15.00
 2.82
 12.18

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STADIA SURVEY NOTES

EAST TAIL 27

AREA KUK RIVER STATE or PROVINCE ALASKA PAGE No. 128
 LINE No.(s) 8 PARTY No. 1182 DATE 27 Day FEB Mo. 1977 Yr. BOOK No. _____
 SURVEYOR J. SWANSON RODMAN D.S. 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												92.4				ROD 137
2		2805		89 56 57				+10.9		+8.1	100.5		A	9TS		H.I. = 5.2
3				270 03 29				+10.9	7.9				Δ			
4																
5		1650		89 46 04				-15.0		-8.3		92.2		4		TAIL
6																
7		330		89 53 14				-10.0		-9.3		96.1		8		↓
8																
9		990		90 04 51				-10.0		-11.4		89.1		12		↓
10																
11		$\frac{155}{2310}$		89 57 09				-15.0		-13.0		87.5		16		
12																
13		3630		89 58 05				-15.0		-12.7		87.8		20		
14																
15		4950		89 52 38				-15.0		-3.9		96.6		24		
16																
17																
18																
19																
20																

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WORKED BY

CHECKED BY 1st

2nd

SW