

HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA Barrow STATE/COUNTY Alaska BOOK NO. 2 PAGE 477 OF
 LINE/LOOP NO. 75 x W TYPE SURVEY CLIENT Hush Oil DATE 6 BY 9 MO 79 YR
 SURVEYOR A. Pandle Jan 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			
1									4.4		79012	1	
2		79010	3476		89 55 57	9.0	+5.1	9.6				2	
3			✓		270 03 06	9.0						3	
4		SP 3	0		90 00 10	5.0	-5.0		4.6			4	
5		SP 2	880		89 49 20	9.0	-6.3		3.3			5	
6		1	1760		89 54 06	9.0	-6.1		3.5			6	
7			✓		270 05 23	9.0						7	
8												8	
9		1	1760		89 52 10	9.0	+4.9	8.4				9	
10			1760		270 08 00	9.0						10	
11		TS 1	880		89 45 20	9.0	-5.2		3.2			11	
12		2	0		90 00 00	5.0	-5.0		3.4			12	
13		3	880		90 05 30	4.0	-5.4		3.0			13	
14		4	1760		90 02 20	4.0	-5.1		3.3			14	
15		5	2190		90 01 10	4.0	-4.8		3.6			15	
16		6	3520		90 00 30	4.0	-4.6		3.8			16	
17												17	

WORKED BY _____ CHECKED BY 1ST _____ 2ND _____

SYMBOLS

= BACKSIGHT

= INSTRUMENT SET-UP

SS = SIDESHOT

= FORESIGHT

HORIZONTAL AND VERTICAL SURVEY NOTES

2

GSI AREA Barron STATE/COUNTY Alaska BOOK NO. 2 PAGE 498 OF
 LINE/LOOP NO. 75 X W TYPE SURVEY CLIENT Husky Oil DATE 6 BY 4 MO 79 YR
 SURVEYOR A. Pendleton 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			
1									4.4		79010	1	
2	A	79010	3496		89 56 30	9.0	+5.3	9.6	4.4			2	
3	A		✓		270 03 26	9.0						3	
4	M	503	0		90 00 00	5.0	-5.0		4.6			4	
5		4	880		89 44 10	9.0	-4.9		4.7			5	
6		5	1760		89 47 50	9.0	-2.7		6.9			6	
7		6	2640		89 51 20	9.0	-2.2		7.4			7	
8		7	3520		89 54 00	9.0	-2.6		7.0			8	
9	θ	8	4400		89 55 18	9.0	-2.6		7.0			9	
10	θ		✓		270 04 43	9.0						10	
11												11	
12	A	8	4400		89 58 10	9.0	+6.2	13.1				12	
13	A		4400		270 02 00	9.0						13	
14		9	3520		89 57 30	9.0	-6.2		6.9			14	
15		10	2640		89 59 36	9.0	-2.7		10.4			15	
16		11	1760		89 55 10	9.0	-2.2		10.9			16	
17		12	880		89 39 36	9.0	-2.6		10.5			17	

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

HORIZONTAL AND VERTICAL SURVEY NOTES

3

GSI AREA Barrow STATE/COUNTY Alaska BOOK NO. 2 PAGE 479 OF
 LINE/LOOP NO. 752W TYPE SURVEY CLIENT Hushy DATE 6 BY 4 MO 79 YR
 SURVEYOR A. Pendleton INSTRUMENT DESC/SERIAL NO. CREW NO. 1192

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
				SLOPE					HORIZ	INST		
1												
2		SP 12	0		90 00 00	5.0	-5.0		13.1			1
3		14	880		89 46 20	9.0	-5.5					2
4		15	1760		89 42 50	9.0	-5.2					3
5		16	2640		89 54 40	9.0	-4.8					4
6		17	3520		89 55 10	9.0	-3.8					5
7		18	4400		89 56 08	9.0	-3.5					6
8					270 09 03	9.0						7
9												8
10		18	2640		89 56 12	9.0	+5.9	154				9
11		21			270 03 57	9.0						10
12		20 19	1760		89 54 10	9.0	-6.0					11
13		21 20	880		89 89 49 50	9.0 9.0	-5.9					12
14		21	0		90 00 00	5.0	-5.0					13
15		22	880		89 42 50	9.0	-4.6					14
16		23	1760		89 51 00	9.0	-4.3					15
17		24	2640		89 51 10	9.0	-2.1					16
												17

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

HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA Darrow STATE/COUNTY Alaska BOOK NO. 2 PAGE 480 OF
 LINE/LOOP NO. 25 & W TYPE SURVEY CLIENT Husky NPR DATE 7 BY 4 MO 79 YR
 SURVEYOR A. Pendleton 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			RIGHT TURNED HORIZONTAL ANGLE
				SLOPE					HORIZ	INST		
1												
2		SP 25	3520		89 53 25	9.0	-1.9	15.4	13.5			
3		26	4400 ✓		270 06 42	9.0						
4												
5		25	4400		89 53 55	9.0	+0.6	14.6				
6			✓		270 06 30	9.0						
7		26	3520		90 03 07	9.0	-11.9		2.1			
8		27	2640		89 59 52	15.0	-13.2		0.8			
9		28	1760		89 50 00	9.0	-3.8		10.2			
10		29	880		89 42 50	9.0	-4.6		9.4			
11		30	0		90 01 00	5.0	-5.0		9.0			
12		30+637	880 637		89 23 06	9.0	-2.1		11.9			
13		32	1760 ✓		270 37 10	9.0						
14		33	2640			9.0						
15												
16												
17												

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HORIZONTAL AND VERTICAL SURVEY NOTES

5

GSI AREA Barrow STATE/COUNTY Alaska BOOK NO. 2 PAGE 481 OF
 LINE/LOOP NO. 25 X W TYPE SURVEY CLIENT Husby NPR DATE BY MO YR
 SURVEYOR A. Pendleton 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			RIGHT TURNED HORIZONTAL ANGLE		
				SLOPE					HORIZ	INST			ROD	
1											1			
2	A	SP 30+637	1400 3763		89 56 05	9.0	+4.3	16.2				2		
3	A		3763		270 09 06	9.0							3	
4		31	3520		89 55 20	9.0	-4.0		12.2				4	
5		32	2640		89 52 30	9.0	-3.1		13.1				5	
6		33	1760		89 51 40	9.0	-4.7		11.5				6	
7		34	880		89 52 10	9.0	-7.1		9.1				7	
8	π	35	0		90 00 00	5.0	-8.0		11.2				8	
9		36	880		89 52 10	9.0	-7.0		9.2				9	
10		37	1760		89 51 10	9.0	-4.4		11.8				10	
11		38	2640		89 55 40	9.0	-5.5		10.7				11	
12		39	3520		89 52 20	9.0	-7.0		9.2				12	
13	θ	40	1400		89 58 14	9.0	-6.3		9.9				13	
14	θ	✓	✓		270 01 48	9.0							14	
15													15	
16	A	40	1400		89 56 45	9.0	+4.4	14.3					16	
17	A		✓		270 03 15	9.0							17	

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SYMBOLS
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 = SIDESHOT
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HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA Barrow STATE/COUNTY Alaska BOOK NO. 2 PAGE 482 OF
 LINE/LOOP NO. 25 XL TYPE SURVEY CLIENT Husky NPR DATE 7 DY 9 MO 79 YR
 SURVEYOR A. Pendleton INSTRUMENT DESC/SERIAL NO. CREW NO. 1182

LINE	 	STATION	VERTICAL						ELEVATION		LIR OR DII	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		SP 41	3520		89 55 20	9.0	-4.0		14.3						
3		42	2640		89 53 50	9.0	-4.1		10.2						
4		43	1760		89 53 40	9.0	-5.7		8.6						
5		44	880		89 54 50	9.0	-7.7		6.6						
6		45	0		90 00 00	5.0	-5.0		9.3						
7		46	880		89 49 00	9.0	-6.2		8.1						
8		47	1760		89 55 50	9.0	-6.8		7.5						
9		48	2640		89 56 22	9.0	-6.1		8.2						
10		49	3520		89 56 20	9.0	-5.0		9.3						
11			✓		270 03 38	9.6			9.3 9.3						
12															
13		49	2469		89 53 27	9.0	+4.1	13.5							
14			✓		270 06 38	9.0									
15		50	1589		89 50 00	9.0	-4.3		9.2						
16		51	709		89 36 30	9.0	-4.1		9.4						
17		51+709	0		90 00 00	5.0	-5.0		8.5			Intersection			(629) SP 41+786

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(75XL) SP 51+709 TI-23471B

HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA Barnow STATE/COUNTY Alaska BOOK NO. 2 PAGE 483 OF
 LINE/LOOP NO. 75 X W TYPE SURVEY CLIENT Husky NPR DATE 7 BY 4 MO 79 YR
 SURVEYOR A. Poudleton INSTRUMENT DESC/SERIAL NO. CREW NO. 1182

LINE	 SS	STATION	VERTICAL						HORIZONTAL		REMARKS	
			DISTANCE		VERTICAL ANGLE OBS.	ROD RDG OR HI	ELEV DIFF	FINAL ELEVATION DIFF	ELEVATION			RIGHT TURNED HORIZONTAL ANGLE
			SLOPE	HORIZ					INST	ROD		
1												
2		38 91 (629)	786		89 40 29	9.0	-4.5		13.5			
3		79 006	4225		89 55 50	9.0	-3.5				BARR-79006	
4			✓		270 09 16	9.0					1182-79006	
5									+0.2		MISTAKE	
6												
7												
8										10.0	79006	
9	A	79006	4225		89 55 50	9.0	+3.5	13.5				
10	A		✓		270 09 16	9.0						
11		52 51+709	0		90 06 00	4.5	-5.0			8.5		
12		53 52	171		88 52 40	9.0	-5.7			7.8		
13		54 53	1051		89 50 10	9.0	-6.0			7.5		
14		54	1931		89 59 20	9.0	-5.7			7.8		
15		55	2811		89 58 50	9.0	-7.9			5.6		
16		56	3691		89 56 10	9.0	-4.6			8.9		
17		57	4591									

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HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA Barrow STATE/COUNTY Alaska BOOK NO. 2 PAGE 484 OF
 LINE/LOOP NO. 75XW TYPE SURVEY CLIENT Husky DATE 7 DY 4 MO 77 YR
 SURVEYOR A. Pendleton INSTRUMENT DESC/SERIAL NO. CREW NO. 1182

LINE	 △ SS 	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									13.5			1		
2	⊙	SP 57	4571		89 56 00	9.0		-3.2		10.3			2	
3	⊙		✓		270 04 04	9.0							3	
4													4	
5	A	SP 57	14200		89 58 25	9.0		+6.5	16.9				5	
6	A		✓		270 01 ¹³ 00	9.0							6	
7		58	3520		89 58 30	9.0		-7.2		9.7			7	
8		59	2640		89 58 00	9.0		-7.3		9.6			8	
9		60	1760		89 51 00	9.0		-4.3		12.6			9	
10		61	880		89 45 50	9.0		-5.4		11.5			10	
11	⊗	62	0		90 00 00	5.0		-5.0		11.9			11	
12		63	890		89 49 30	9.0		-6.3		10.6			12	
13		64	1760		89 54 40	9.0		-6.2		10.7			13	
14		65	2640		90 00 40	9.0		-9.4		7.5			14	
15		66	3520		90 02 00	9.0		-10.8		6.1			15	
16	⊙	67	4400		90 02 55	9.0		-12.3		4.6			16	
17	⊙		✓		269 57 10	9.0							17	

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SYMBOLS △ = BACKSIGHT ⊗ = INSTRUMENT SET-UP ⊙ = SIDESHOT ⊙ = FORESIGHT

HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA Barrow STATE/COUNTY Alaska BOOK NO. 2 PAGE 185 OF
 LINE/LOOP NO. 75 xw TYPE SURVEY CLIENT Hurky NPR DATE 7 BY 4 MO 99 YR
 SURVEYOR A. Pendleton 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 DJ		RIGHT TURNED HORIZONTAL ANGLE				
				SLOPE					HORIZ	INST				ROD			
1																	
2		SP 67	4400		90 01 40	9.0	+10.6	15.2									
3			✓		269 58 36	9.0											
4		68	3520		89 58 20	9.0	-7.0		8.2								
5		69	2640		89 56 20	9.0	-6.0		9.2								
6		70	1760		89 54 20	9.0	-6.0		9.2								
7		71	880		89 49 00	9.0	-5.9		9.3								
8		72	0		90 00 00	5.0	-5.0		10.2								
9		73	880		89 46 36	9.0	-5.5		9.7								
10		74	1760		89 53 30	9.0	-5.6		9.6								
11		75	2640		89 56 50	9.0	-6.4		8.8								
12			✓		270 03 20	9.0											
13																	
14		75	4093		90 02 02	9.0	+11.0	19.9									
15			✓		269 58 05	9.0											
16		76	3213		90 02 10	9.0	-10.8		9.1								
17		77	2333		89 58 50	9.0	-8.1		11.8								

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HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA Barrow STATE/COUNTY Alaska BOOK NO. 2 PAGE 486 OF
 LINE/LOOP NO. 75 XLW TYPE SURVEY CLIENT Husky NPR DATE 7 DY 9 MO 79 YR
 SURVEYOR A. Pendleton INSTRUMENT DESC/SERIAL NO. CREW NO. 1182

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
				SLOPE	HORIZ										
1										19.9			1		
2		SP 78	1953		89 56 10	9.0	-7.3			12.6			2		
3		79	573		89 51 10	9.0	-7.5			12.4			3		
4		X 79+573	0		90 00 00	5.0	-5.0			14.9			4		
5		80	307 307		89 11 10	9.0	-4.6			15.3			5		
6		0 81	1187		90 01 15	9.0	-9.4			10.5			6		
7		0 82	✓		209 58 44	9.0							7		
8													8		
9		A 81	4400		89 55 57	9.0	+3.4		13.8				9		
10		A	✓		290 04 08	9.0							10		
11		82	3520		89 56 50	9.0	-5.5			8.3			11		
12		83	2640		89 56 20	9.0	-6.0			7.8			12		
13		84	1760		89 54 30	9.0	-6.1			7.7			13		
14		85	880		89 56 50	9.0	-8.2			5.6			14		
15		X 86	0		90 00 00	5.0	-5.0			8.8			15		
16		0 79 013	307 339		89 24 47	9.0	-5.5			8.3		79013-8ARR	16		
17		0	✓		290 35 16	9.0				8.1		79013-1182	17		

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

HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA Barnum STATE/COUNTY Alaska BOOK NO. 2 PAGE 487 OF
 LINE/LOOP NO. 75 XW TYPE SURVEY CLIENT Husky NPP DATE 7 DY 4 MO 79 YR
 SURVEYOR A. Pendleton INSTRUMENT DESC/SERIAL NO. CREW NO. 1182

LINE	 	STATION	VERTICAL						ELEVATION		L/R OR DJ	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	A	79013	389 339		89 24 47	9.07	+5.5	14.2		8.3		79013		1
3	A		✓		270 35 16	9.0								2
4	π	58 86	0		90 00 00	5.0	-5.0			9.2				3
5		87	880		89 54 40	9.0	-7.6			6.6				4
6		88	1760		89 58 10	9.0	-8.0			6.2				5
7		89	2640		89 59 00	9.0	-8.1			6.1				6
8		90	3520		89 58 40	9.0	-7.4			6.8				7
9	0	91	4400		89 59 20	9.0	-7.7			6.5				8
10	0		4400		270 00 46	9.0								9
11														10
12	A	91	4400		89 58 02	9.0	+6.1	12.8						11
13	A		✓		270 02 00	9.0								12
14		92	3520		89 56 30	9.0	-5.2			7.6				13
15		93	2640		89 56 40	9.0	-6.3			6.5				14
16		94	1760		89 55 00	9.0	-6.4			6.9				15
17		95	880		89 47 20	9.0	-5.7			7.1				16

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

HORIZONTAL AND VERTICAL SURVEY NOTES

12

GSI AREA Barrow STATE/COUNTY Alaska BOOK NO. 2 PAGE 988 OF
 LINE/LOOP NO. 75 XW TYPE SURVEY CLIENT Husky NPR DATE 7 DY 4 MO 98 YR
 SURVEYOR A. Penleton INSTRUMENT DESC/SERIAL NO. CREW NO. 1182

LINE	 	STATION	VERTICAL						ELEVATION		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	L/R OR D/I		RIGHT TURNED HORIZONTAL ANGLE	LINE
				SLOPE	HORIZ										
1									12.8				1		
2		SP 96	0		90 00 00	5.0	-5.0			7.8			2		
3		97	880		89 46 20	9.0	-5.5			7.3			3		
4		99	1760		89 54 20	9.0	-6.0			6.8			4		
5		99	2640		89 58 20	9.0	-7.6			5.2			5		
6		100	3520		89 59 10	9.0	-7.8			5.0			6		
7			✓		270 00 58	9.0							7		
8													8		
9		SP 100	4400		89 59 52	9.0	+8.4		13.5				9		
10			✓		270 00 10	9.0							10		
11		101	3520		89 59 40	9.0	-8.4			5.1			11		
12		102	2640		90 00 05	9.0	-8.9			4.6			12		
13		103	1760		89 55 30	9.0	-6.6			6.9			13		
14		104	880		89 55 30	9.0	-7.8			5.7			14		
15		105	0		90 00 00	5.0	-5.0			8.5			15		
16		106	880		89 44 00	9.0	-4.9			8.6			16		
17		107	1760		89 60 00	9.0	-3.8						17		

TI-23471B

WORKED BY CHECKED BY 1ST 2ND

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

HORIZONTAL AND VERTICAL SURVEY NOTES

13

GSI AREA Barron STATE/COUNTY Alaska BOOK NO. 2 PAGE 489 OF
 LINE/LOOP NO. 75 & W TYPE SURVEY CLIENT Arctic Oil DATE 7 DY 4 MO 79 YR
 SURVEYOR A. Pendleton 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			RIGHT TURNED HORIZONTAL ANGLE										
				SLOPE					HORIZ	INST			ROD									
1																						
2		SP 107	1760		89 56 12	9.0		-7.0		13.5	6.5											
3			✓		270 03 50	9.0																
4																						
5		SP 107	2690		89 55 03	9.6		+5.1		11.9												
6			✓		270 04 57	9.0																
7		108	1760		89 55 20	9.0		-6.6			5.3											
8		109	980		89 56 00	9.0		-8.0			3.9											
9		110	0		90 00 00	5.0		-5.0			6.9											
10		75 9	880		70 29 30	4.0		-10.3			1.6											
11		2	1760		90 13 00	4.0		-10.6			1.3											
12		3	2640		90 10 20	4.0		-11.8			0.1											
13		4	3520		90 07 40	4.0		-11.6			0.3											
14		5	4400		90 06 10	4.0		-11.5			0.4											
15		6	5280		90 05 30	4.0		-11.9			0.0											
16		79019	4198		89 57 44	9.6		-5.8			6.1		79014-BARK									
17			✓		270 02 22	9.0					5.1		79014-1182									

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