

HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA TESHEKPUK STATE/COUNTY ALASKA BOOK NO. 2 PAGE 429 OF
 LINE/LOOP NO. 659 TYPE SURVEY T II CLIENT HUSKY OIL CO. DATE 29 DY 3 MO 79 YR
 SURVEYOR STONE 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	LINE
				SLOPE					HORIZ	INST			
1			FOR TAKE OFF ELL. SP-163 L-628 Rod. Page 395 Lm. 14 ¹⁶ 3.5								1		
2		SP-163-L-628	✓		89 52 35	9.0	+5.1	10.6			2	SP-163-L-628=SP-3-L-659	
3		SP-3-L-659	1760		270 07 29	9.0	-				3		
4		SP-2	880		89 44 40	9.0	-5.1	5.5			4		
5		SP-1	0		90 00 00	5.0	-5.0	5.6			5		
6		T-51	880		89 44 35	9.0	-5.0	5.6			6		
7		T-52	1760		89 55 09	9.0	-6.1	4.5			7		
8		T-53	2640		89 57 19	9.0	-6.8	3.8			8		
9		T-54	3520		89 57 30	9.0	-6.2	4.4			9		
10		T-55	4400		89 57 15	9.0	-5.1	5.5			10		
11		T-56	5280		89 58 28	9.0	-6.1	4.5			11		
12		✓	✓		270 01 32	9.0	-				12		
13											13		
14											14		
15											15		
16											16		
17											17		












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

HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA TESHKPUK STATE/COUNTY ALASKA BOOK NO. 2 PAGE 430 OF
 LINE/LOOP NO. 659 TYPE SURVEY IT CLIENT HUSKY OIL CO. DATE 29 DY 3 MO 79 YR
 SURVEYOR STONE 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		SP163-2628	✓		89 53 11	9.0	15.4	11.4				FOR TAKE OFF ELL.
3		SP3-L659	1760		270 07 08	9.0	✓					Ref. page 395
4		SP4	880		89 45 00	9.0	-5.1		6.3			Line # 14
5		SP5	0		90 00 00	5.0	-5.0		6.4			
6		SP6	880		89 35 50	9.0	-2.8		8.6			
7		SP6+208	1088		89 34 15	9.0	-0.8		ELL 10.6	BARR-79059		79059 = SP6 + 208 L659
8			✓		270 26 00	9.0	✓		ELL 10.1	79059-1182		
9												
10									VER TIE = -0.5			
11		SP6+208 = 79059	✓		89 56 05	9.0	+4.9	15.7				
12		✓	3312		270 04 09	9.0	✓					
13		SP7	2640		89 54 13	9.0	-4.2		11.5			
14		SP8	1760		89 58 05	9.0	-8.0		7.7			
15		SP9	880		89 48 35	9.0	-6.1		9.6			
16		SP10	0		90 00 00	5.0	-5.0		10.7			
17		SP11	880		89 37 58	9.0	-3.3		12.4			

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HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA TESHEKPUK STATE/COUNTY ALASKA BOOK NO. 2 PAGE 431 OF 3
 LINE/LOOP NO. 659 TYPE SURVEY TIL CLIENT HUSKY OIL DATE 29 DY 3 MO. 79 YR
 SURVEYOR STONE INSTRUMENT DESC/SERIAL NO. _____ CREW NO. 1102

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	LINE
				SLOPE					HORIZ	INST				
1												1		
2		SP12	1760		89 48 55	9.0	-3.3		12.4			2		
3		SP13	2640		89 52 44	9.0	-3.3		12.4			3		
4		SP14	3520		89 57 44	9.0	-8.5		7.2			4		
5	⊙	SP15	4400		89 58 33	9.0	-6.5		9.2			5		
6	⊙	"	"		(270 01 52)	9.0	"					6		
7												7		
8	A	SP15	-		(90 02 42)	9.0	+11.9	21.3				8		
9	A	"	4400		(269 57 33)	9.0	"					9		
10		SP16	3520		90 06 48	9.0	-9.6		11.7			10		
11		SP17	2640		90 00 13	9.0	-9.0		12.3			11		
12		SP18	1760		89 48 02	9.0	-2.0		18.5			12		
13		SP19	880		89 52 45	9.0	-7.1		14.2			13		
14	⊗	SP20	0		90 00 00	5.0	-5.0		16.3			14		
15		SP21	880		89 48 13	9.0	-6.0		15.3			15		
16		SP22	1760		90 00 19	9.0	-9.1		12.2			16		
17		SP23	2640		90 00 20	9.0	-9.1		12.2			17		

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SYMBOLS

= BACKSIGHT

= INSTRUMENT SET-UP

= SIDESHOT

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HORIZONTAL AND VERTICAL SURVEY NOTES

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GSI AREA TUSHEKPUK STATE/COUNTY ALASKA BOOK NO. 7 PAGE 432 OF
 LINE/LOOP NO. 639 TYPE SURVEY TIC CLIENT HUSKY OIL CO. DATE 29 DY 3 MO 79 YR
 SURVEYOR STONE INSTRUMENT DESC/SERIAL NO. CREW NO. 1182

LINE	<input type="checkbox"/> Δ <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			RIGHT TURNED HORIZONTAL ANGLE
				SLOPE					HORIZ	INST		
1									21.3		1	
2		SP24	3520		89 55 57	9.0	-4.6		16.7		2	
3		SP25	4400		89 59 37	9.0	-8.0		13.3		3	
4		✓	✓		270 00 34	9.0	-				4	
5											5	
6		Δ SP25	✓		89 56 30	9.0	+3.9		17.3		6	
7		Δ ✓	4400		270 03 50	9.0	-				7	
8		SP26	3820		89 55 56	9.0	-4.6		12.7		8	
9		SP27	2640		89 54 20	9.0	-4.5		12.8		9	
10		SP28	1760		89 51 34	9.0	-4.6		12.7		10	
11		SP29	880		89 42 30	9.0	-4.5		12.8		11	
12		Δ SP30	0		90 00 00	5.0	-5.0		12.3		12	
13		SP31	880		89 41 05	9.0	-4.1		13.2		13	
14		\odot BA-79163	1080		90 00 00	3.7	-3.7		ELL 136	BARA-79163	14	BARA-79163
15		\odot ✓	✓		270 00 00	3.7	-		ELL 132	79163-1182	15	
16									VER TIC = -0.4		16	
17											17	

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HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA TESHEKPOK STATE/COUNTY ALASKA BOOK NO. 2 PAGE 135 OF
 LINE/LOOP NO. 659 TYPE SURVEY CLIENT HUSKY OIL CO DATE 30 BY 3 MO 79 YR
 SURVEYOR STONE INSTRUMENT DESC/SERIAL NO. CREW NO. 1182

LINE	<input type="checkbox"/> Δ <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	ELEVATION			L/R OR DI	RIGHT TURNED HORIZONTAL ANGLE
				SLOPE	HORIZ				INST	ROD			
1											1		
2	Δ	SP-45	✓		90 03 12	9.0	+12.6	30.9			2		
3	Δ		4400		(269 57 00)	9.0	✓				3		
4		SP-46	3520		90 03 47	9.0	-12.6	18.3			4		
5		SP-47	2640		90 05 13	9.0	-12.9	18.0			5		
6		SP-48	1760		90 07 55	9.0	-13.0	17.9			6		
7		SP-49	880		90 03 47	9.0	-10.0	20.9			7		
8	π	SP-50	0		90 00 00	5.0	-5.0	25.9			8		
9		SP-51	880		90 24 21	9.0	-15.2	15.7			9		
10		SP-52	1760		90 09 06	9.0	-13.6	17.3			10		
11		SP-53	2640		90 07 00	9.0	-14.2	16.7			11		
12		SP-54	3520		90 06 00	9.0	-14.9	16.0			12		
13	\odot	SP-55	4400		90 05 18	9.0	-15.3	15.6			13		
14	\odot	✓			(269 54 47)	9.0	✓				14		
15											15		
16											16		
17											17		

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HORIZONTAL AND VERTICAL SURVEY NOTES

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GSI AREA TESHENPUK STATE/COUNTY ALASKA BOOK NO. 2 PAGE 136 OF
 LINE/LOOP NO. 659 TYPE SURVEY CLIENT MUSKY OIL CO. DATE 30 BY 3 MO 19 YR
 SURVEYOR STONE 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			RIGHT TURNED HORIZONTAL ANGLE
				SLOPE	HORIZ				INST	ROD		
1											1	
2	Δ	SP-55	✓			89 55 57 9.0	13.3	18.7			2	
3	Δ		4400			270 04 15 9.0	✓				3	
4		SP-56	3520			89 53 54 9.0	-2.5	16.2			4	
5		SP-57	2640			89 53 00 9.0	-3.5	15.2			5	
6		SP-58	1760			89 54 45 9.0	-6.3	12.4			6	
7		SP-59	800			89 42 50 9.0	-4.6	14.1			7	
8	⊥	SP-60	0			90 00 00 5.0	-5.0	13.7			8	
9		SP-61	880			89 45 13 9.0	-5.2	13.5			9	
10		SP-62	1760			89 54 17 9.0	-6.0	12.7			10	
11		SP-63	2640			89 56 05 9.0	-5.9	12.8			11	
12		SP-64	3520			89 56 20 9.0	-5.0	13.7			12	
13	⊙	SP-65	4400			89 55 57 9.0	-3.4	15.8			13	
14	⊙	✓	✓			270 04 05 9.0	✓				14	
15											15	
16											16	
17											17	

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HORIZONTAL AND VERTICAL SURVEY NOTES

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GSI AREA TESHKEPUK STATE/COUNTY ALASKA BOOK NO. 2 PAGE 437 OF
 LINE/LOOP NO. 659 TYPE SURVEY CLIENT Husky oil co. DATE 30 DY 3 MO 29 YR
 SURVEYOR STONE 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	LINE
				SLOPE					HORIZ	INST			
1											1		
2		SP65	✓		89 58 30	9.0	18.1	23.4			2		
3			1760		270 01 46	9.0	-				3		
4		SP66	880		89 57 00	9.0	-8.2	15.2			4		
5		SP67	0		90 00 00	5.0	-5.0	18.4			5	SP-67-LAST SP-1-659	
6		BARR.	1090		90 00 00	6.9	-6.9	ELL 16.5		BARR. 79161	6		
7			✓		270 00 00	6.9	-	ELL 16.2		79161 - 1182	7		
8								VER. TIE = 10.7			8		
9								TR 16.5			9		
10		BARR 79161	1090		90 00 00	6.9	16.9	23.4			10		
11			✓		270 00 00	6.9					11		
12		TS-1	TS-1-880		90 52 20	9.0	-22.4	1.0			12		
13		" 2	TS-2-1760		90 27 52	9.0	-23.2	0.2			13		
14		" 3	TS-3-2640		90 24 53	4.0	-23.0	0.4			14		
15		" 4	TS-4-3520		90 18 35	4.0	-22.8	-0.6			15		
16		" 5	TS-5-4400		90 14 55	4.0	-22.7	-0.7			16		
17		" 6	TS-6-5280		90 12 43	4.0	-23.0	00.4			17		

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