


HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA BARRON STATE/COUNTY ALASKA BOOK NO. 2 PAGE 469 OF
 LINE/LOOP NO. 624 TYPE SURVEY CLIENT HUSKY Oil Co. DATE 4 DY 4 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			ROD									
1																						
2	Δ	SP-58 L659-N	1532			89 45 23	9.0		+2.33		24.3											FOR TAKE OFF ELEV Ref.
3	Δ					270 15 05	9.0		+4.6		27.0											Page 444-L659W
4		L-624 L-639-W SP-91550 = SP-58 + 550	1430			89 46 52	9.0		-3.5		23.6											LINE # 5
5		SP-9	880			89 38 06	9.0		-3.4		23.7											LINE INT
6	∇	SP-8	0			90 00 00	5.0		-5.0		22.1											
7		SP-7	880			89 37 35	9.0		-3.3		23.8											
8	\odot	SP-6	1760			89 39 26	9.0		+1.6		28.7											
9	\odot					270 20 34	9.0															
10																						
11	Δ	SP-6				89 39 26	9.0		-1.7		27.5											
12	Δ		1760			270 20 50	9.0															
13		SP-5	880			89 37 17	9.0		-3.2		24.3											
14	∇	SP-4	0			90 00 00	5.0		-5.0		22.5											
15		SP-3	880			89 48 50	9.0		-6.1		21.4											
16	\odot	SP-2	1760			89 58 40	9.0		-8.2		19.3											
17	\odot					270 01 33	9.0															

TI-23471B

WORKED BY CHECKED BY 1ST 2ND

SYMBOLS Δ = BACKSIGHT ∇ = INSTRUMENT SET-UP SS = SIDESHOT \odot = FORESIGHT

HORIZONTAL AND VERTICAL SURVEY NOTES

2

GSI AREA BARROW STATE/COUNTY ALASKA BOOK NO. 2 PAGE 470 OF
 LINE/LOOP NO. 624 TYPE SURVEY CLIENT MUSKY OIL CO. DATE 1 BY 4 MO 19 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									19.3			
2		SP-2	✓		89 41 30	9.0	✓					
3			880		210 18 50	9.0	-4.2	23.5				
4		SP-1	✓		90 00 00	5.0	-5.0					
5		TS-1	880		89 45 31	9.0	-5.3		18.2		TAIL SPREAD 1-6 ON LAKE	
6		TS-2							18.2			
7		TS-3							18.2			
8		TS-4							18.2			
9		TS-5							18.2			
10		TS-6							18.2			
11		SP-1	0		90 00 00	5.0	-5.0		18.5			
12		✓	✓		210 00 00	5.0	✓					
13		SP-1	1180		90 00 00	6.4	+6.4	24.9				
14			✓		210 00 00	6.4	✓			B		
15		Dr. 79158	0		90 00 00	5.0	-5.0		19.9	BAR-79158		
16			✓		210 00 00	✓	✓		28.9	79158-1182		
17										1182-79158		

WORKED BY CHECKED BY 1ST 2ND MISTIE

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

HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA BARROW STATE/COUNTY ALASKA BOOK NO. 2 PAGE 471 OF
 LINE/LOOP NO. 624 TYPE SURVEY CLIENT HUSKY OIL CO. DATE 6 BY 4 MO 78 YR
 SURVEYOR STONE INSTRUMENT DESC/SERIAL NO. CREW NO. 102

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 D/I	RIGHT TURNED HORIZONTAL ANGLE
				SLOPE					HORIZ	INST			
1									24.3				
2	Δ	SP 58 L-659 W	730		89 43 15	9.0	+5.4	29.3				1) FOR TAKE OFF - ELL. 2) Ref Page 444 - L-659-W	
3	Δ	-	-		270 17 05	9.0	-					3) LINE #5	
4	$\bar{\Delta}$	SP-10	0		90 00 00	5.0	-5.0		24.3				
5		SP-11	880		89 40 32	9.0	-4.0		25.3				
6	\odot	SP-11+262-B-79005	1142		89 45 58	9.0	-4.3		25.0		BARR-79005		
7	\odot	-	-		270 14 24	9.0	-		25.5		79005-1182		
8											Yes Tie = 105		
9									TK: 25.0				
10	Δ	SP-11+267-B-79005	✓		90 05 52	9.0	+16.9	418					
11	Δ	-	5018		269 54 22	9.0	-						
12		SP-12	4400		90 07 30	9.0	-18.2		23.6				
13		SP-13	3520		90 08 26	9.0	-17.4		24.7				
14		SP-14	2640		90 10 20	9.0	-16.8		25.0				
15		SP-15	1760		90 11 47	9.0	-15.0		26.8				
16		SP-16	880		90 22 20	9.0	-14.1		27.1				
17	$\bar{\Delta}$	SP-17	0		90 00 00	5.0	-5.0		36.8				

TI-23471B

WORKED BY CHECKED BY 1ST 2ND

SYMBOLS Δ = BACKSIGHT $\bar{\Delta}$ = INSTRUMENT SET-UP SS = SIDESHOT \odot = FORESIGHT

HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA BARROW STATE/COUNTY ALASKA BOOK NO. 2 PAGE 472 OF
 LINE/LOOP NO. 624 TYPE SURVEY CLIENT HUSKY OIL DATE 6 BY 4 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			L/R OR DJ	RIGHT TURNED HORIZONTAL ANGLE
				SLOPE					HORIZ	INST			
1									41.8			1	
2		SP-18	880		89 51 00	9.0	-6.7		35.1			2	
3		SP-19	1760		90 10 24	9.0	-14.3		26.5			3	
4		SP-20	2640		90 11 55	9.0	-18.0		23.8			4	
5		SP-21	3520		90 13 16	9.0	-22.3		19.5			5	
6	⊙	SP-22	4400		90 10 25	9.0	-21.9		19.9			6	
7	⊙	✓	✓		269 49 43	9.0	✓					7	
8												8	
9	Δ	SP-22	✓		89 59 43	9.0	+8.8	27.9				9	
10	Δ		1760		210 00 23	9.0	✓					10	
11		SP-23	880		89 48 48	9.0	-6.1		21.6			11	
12	⊗	SP-24	0		90 00 00	5.0	-5.0		22.7			12	
13		SP-25	880		90 00 01	9.0	-9.0		18.7			13	
14		SP-26	1760		90 18 24	9.0	-18.4		9.3			14	
15		SP-27	2640		90 12 31	9.0	-18.5		9.2			15	
16	⊙	SP-28	3520		90 09 41	9.0	-18.6		9.1			16	
17	⊙	✓	✓		269 50 23	9.0	✓					17	

WORKED BY CHECKED BY 1ST 2ND

SYMBOLS Δ = BACKSIGHT ⊗ = INSTRUMENT SET-UP SS = SIDESHOT ⊙ = FORESIGHT

HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA BARROW STATE/COUNTY ALASKA BOOK NO. 2 PAGE 472 OF
 LINE/LOOP NO. 624 TYPE SURVEY CLIENT Husky oil co. DATE 6 BY 4 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											1	
2		SP-28	✓		89 59 25	9.0	+7.7	17.4			2	
3		✓	4400		210 00 52	9.0	✓				3	
4		SP-29	3520		89 59 15	9.0	-8.0		9.4		4	
5		SP-30	2640		89 58 20	9.0	-7.6		9.9		5	
6		SP-31	1760		89 58 40	9.0	-8.3		9.1		6	
7		SP-32	880		89 58 20	9.0	-8.6		8.8		7	
8		SP-33	0		90 00 00	5.0	-5.0		9.4		8	
9		SP-34	880		89 48 20	9.0	-6.0		11.4		9	
10		SP-35	1760		89 55 30	9.0	-6.3		11.1		10	
11		SP-36	2640		89 57 50	9.0	-7.2		10.2		11	
12		SP-37	3520		89 57 56	9.0	-6.6		10.8		12	
13		SP-38	4400		89 59 50	9.0	-8.4		9.0		13	
14		✓	✓		210 00 10	9.0	✓				14	
15											15	
16											16	
17											17	

TI-28471B

WORKED BY CHECKED BY 1ST 2ND

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

HORIZONTAL AND VERTICAL SURVEY NOTES

6

GSI AREA BARROW STATE/COUNTY ALASKA BOOK NO. 2 PAGE 473 OF
 LINE/LOOP NO. 624 TYPE SURVEY CLIENT Husky oil DATE 6 DY 9 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	ELEVATION			L/R OR DIA	RIGHT TURNED HORIZONTAL ANGLE
			SLOPE	HORIZ					INST	ROD			
1												1	
2		SP-38	1600		89 53 45	9.0	+6.0	15.0				2	
3			✓		270 06 22	9.0						3	
4												4	
5		BR-79006	0		90 00 00	5.0	-5.0	10.0		BR. 79006		5	
6		✓	0		270 00 00	5.0	-5.0	10.5		79006-1182		6	
7										Ver. Tie = +0.5		7	
8		BR-79006	0		90 00 00	5.0	+5.0	14.8				8	
9		✓	0		270 00 00	5.0						9	
10												10	
11		SP-38	1600		89 53 45	9.0	-6.0	8.8				11	
12		✓	✓		270 06 22	9.0						12	
13												13	
14												14	
15												15	
16												16	
17												17	

TI-23471B

WORKED BY CHECKED BY 1ST 2ND

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

HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA _____ STATE/COUNTY ALASKA BOOK NO. 2 PAGE 474 OF _____
 LINE/LOOP NO. 624 TYPE SURVEY _____ CLIENT Husky Oil Co. DATE 6 BY 4 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			LR OR DR	RIGHT TURNED HORIZONTAL ANGLE
				SLOPE					HORIZ	INST			
1												1	
2		SP-38	✓		89 56 43	9.0	+4.4	13.1				2	
3		✓	4400		270 03 20	9.0	✓					3	
4		SP-39	3520		89 55 50	9.0	-4.5		8.6			4	
5		SP-40	2640		89 52 52	9.0	-3.4		9.7			5	
6		SP-41	1760		89 51 00	9.0	-4.3		8.8			6	
7		SP-42	880		89 45 14	9.0	-5.2		7.9			7	
8		SP-43	0		90 00 00	5.0	-5.0		8.1			8	
9		SP-44	880		89 45 44	9.0	-5.3		7.8			9	
10		✓	✓		270 14 20	9.0	✓					10	
11												11	
12		SP-44	✓		89 58 06	9.0	+7.4	14.9				12	
13		✓	2640		270 02 00	9.0	✓					13	
14		SP-45	1760		89 54 10	9.0	-6.0		8.9			14	
15		SP-46	880		89 43 58	9.0	-4.9		10.0			15	
16		SP-47	0		90 00 00	5.0	-5.0		9.9			16	
17		SP-48	880		90 04 54	9.0	-10.2		4.7			17	

TI-23471B

WORKED BY _____ CHECKED BY 1ST _____ 2ND _____

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

HORIZONTAL AND VERTICAL SURVEY NOTES

8

GSI AREA BARROW STATE/COUNTY ALASKA BOOK NO. 2 PAGE 475 OF
 LINE/LOOP NO. 624 TYPE SURVEY CLIENT Husky oil co. DATE 6 DY 4 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			L/R OR DJI	RIGHT TURNED HORIZONTAL ANGLE
				SLOPE					HORIZ	INST			
1													
2		SP-49	1760		90 01 30	9.0	-9.7		14.9				
3		SP-50	2640		90 02 45	9.0	-11.0						
4		SP-50+390	3030		90 02 40	9.0	-11.2					79007-2 SP-50+390	
5		✓	✓		269 57 20	9.0	✓					79007-1182	
6												Ver Tie +0.5	
7		SP-50+390	✓		89 56 00	9.0	+6.3	8.4	7.7				
8		✓	2130		270 04 20	9.0	✓						
9		SP-51	2640		89 59 20	9.0	-8.3					0.1	
10		SP-52	1720		89 58 13	9.0	-8.1					0.3	
11		SP-53	880		89 50 00	9.0	-6.4					2.0	
12		SP-54	0		90 00 00	5.0	-5.0					3.4	
13		SP-55	880		89 52 30	9.0	-7.1					1.3	
14		SP-56	1760		89 53 13	9.0	-5.5					2.9	
15		SP-57	2640		89 56 25	9.0	-6.1					2.3	
16		✓	✓		270 03 36	9.0	✓						
17													

TI-29471B

WORKED BY CHECKED BY 1ST 2ND

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

HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA BARRW STATE/COUNTY ALASKA BOOK NO. 2 PAGE 476 OF
 LINE/LOOP NO. 624 TYPE SURVEY CLIENT Husky oil co. DATE 6 BY 4 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			L/R OR DIA	RIGHT TURNED HORIZONTAL ANGLE
				SLOPE					HORIZ	INST			
1													
2		50-57	726		89 49 10	9.0	+6.5	8.8					
3			v		270 11 00	9.0	v						
4													
5		BARR-79008	0		90 00 00	5.0	-5.0		3.8		BARR-79008		
6			0		270 00 00		-5.0		5.4		79008-1182		
7		TS-1							COVER TO		+1.6		TS-1-6 SEA LEVEL
8		2							0.0				
9		3							0.0				
10		4											
11		5											
12		TS-6											
13													
14													
15													
16													
17													

WORKED BY CHECKED BY 1ST 2ND

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