

# HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA LOOKOUT RIDGE STATE/COUNTY ALASKA BOOK NO. \_\_\_\_\_ PAGE 364 OF \_\_\_\_\_  
 LINE/LOOP NO. 729 TYPE SURVEY \_\_\_\_\_ CLIENT HUSKY OIL DATE 28 9 MO 80 YR  
 SURVEYOR D. HELANDER INSTRUMENT DESC/SERIAL NO. \_\_\_\_\_ CREW NO. 1182

LINE	<input type="checkbox"/> $\Delta$ <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		L/R OR DIR		RIGHT TURNED HORIZONTAL ANGLE	LINE
				SLOPE					HORIZ	INST				
1		ELEVATION	TAKEOFF FROM	TBM 80163	COMMON	SP 106						1		
2												2		
3	$\Delta$	80163	880		8847.41	5.0	4?					3		
4	$\checkmark$				271.1215							4		
5	$\nabla$	105				5.0						5		
6	S	104	880	91.4840	91.4840	11.4						6		
7	S	103	1760		91.5717	11.4						7		
8	S	102	2640		92.0719	11.4						8		
9	S	101	3520		92.1225	11.4						9		
10	S	100	4400		92.0052	11.4						10		
11	S	99	5280		91.0125	11.4						11		
12	S	98	6160		91.0414	26.4						12		
13	S	97	7040		90.5331	11.4						13		
14	S	96	7920		90.3448	11.4						14		
15	S	95	8800		90.2721	11.4						15		
16	S	94	9680		90.1925	11.4						16		
17												17		

TI-23471B

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SYMBOLS  $\Delta$  = BACKSIGHT  $\nabla$  = INSTRUMENT SET-UP SS = SIDESHOT  $\odot$  = FORESIGHT

# HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA LOOKOUT RIDGE STATE/COUNTY ALASKA BOOK NO. \_\_\_\_\_ PAGE 365 OF \_\_\_\_\_  
 LINE/LOOP NO. 729 TYPE SURVEY \_\_\_\_\_ CLIENT HUSKY OIL DATE 28 BY 3 MO 80 YR  
 SURVEYOR D. HELANDER 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 D/I	RIGHT TURNED HORIZONTAL ANGLE
				SLOPE					HORIZ	INST			
1		106	880		88 23 58	11.4						1	
2		106+165	1045		88 44 07	11.4	01"		509.8			2	
3	✓				271 16 05							3	
4												4	
5		106+165	4235		88 32 45	11.4	48					5	
6	✓				271 27 09							6	
7		111				5.0						7	
8	S	107	3820		88 32 52	11.4						8	
9	S	108	2640		88 52 03	11.4						9	
10	S	109	1760		89 43 57	11.4						10	
11	S	110	880		90 56 00	11.4						11	
12	S	112	880		88 11 54	11.4						12	
13	S	113	1760		88 10 50	11.4						13	
14		113+495	2255		88 26 42	11.4	45		463.28			14	
15	✓				271 37 17							15	
16												16	
17												17	

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

# HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA LOOKOUT RIDGE STATE/COUNTY ALASKA BOOK NO. \_\_\_\_\_ PAGE 366 OF \_\_\_\_\_  
 LINE/LOOP NO. 729 TYPE SURVEY \_\_\_\_\_ CLIENT HUSKY OIL DATE 28 BY 3 MO 80 YR \_\_\_\_\_  
 SURVEYOR D. HELANDER INSTRUMENT DESC/SERIAL NO. \_\_\_\_\_ CREW NO. 1182

LINE	<input type="checkbox"/> Δ <input type="checkbox"/> ↗ <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	FINAL ELEVATION DIFF	ELEVATION			L/R OR DJI	RIGHT TURNED HORIZONTAL ANGLE	LINE
				SLOPE					HORIZ	INST				
1	Δ	113+495	3905	<del>88+49</del>	88 44 49	11.4	53					1		
2	✓			2711502	2711502							2		
3	✗	118				5.0						3		
4	S	114	3520		88 45 57	11.4						4		
5	S	115	2640		89 58 08	11.4						5		
6	S	116	1760		91 47 03	11.4						6		
7	S	117	880		91 23 36	22.0						7		
8	S	119	880		89 50 57	11.4						8		
9	S	120	1760		88 41 45	11.4						9		
10	S	121	2640		88 17 27	11.4						10		
11	S	122	3520		88 06 30	11.4						11		
12	S	123	4400		88 01 04	11.4						12		
13	⊙	124	5280		87 58 06	11.4	14		565.21			13		
14	✓				222 01 37	11.4						14		
15												15		
16												16		
17												17		

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# HORIZONTAL AND VERTICAL SURVEY NOTES

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GSI AREA LOOKOUT RIDGE STATE/COUNTY ALASKA BOOK NO. \_\_\_\_\_ PAGE 367 OF \_\_\_\_\_  
 LINE/LOOP NO. 729 TYPE SURVEY \_\_\_\_\_ CLIENT NUSKY OIL DATE 28 BY 3 MO 80 YR  
 SURVEYOR D HELANDER 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 D/I	RIGHT TURNED HORIZONTAL ANGLE	LINE
				SLOPE					HORIZ	INST				
1		124	1760		92.45.21	11.4	27					1		
2					267.19.26							2		
3		126				5.0						3		
4		125	880		92.51.19	11.4						4		
5		127	880		87.24.46	11.4						5		
6		80162	980		87.58.13	6.0	16					6		
7					272.01.40							7		
8												8		
9		80162	840		89.59.19	9.0	18					9		
10					270.00.44							10		
11		128+55										11		
12		128	55		82.55.33	11.4						12		
13		129	825		92.08.29	11.4						13		
14		130	1705		91.46.51	11.4						14		
15		131	2585		91.08.13	11.4						15		
16		131+165	2750		91.03.34	11.4	32		631.84			16		
17					268.56.30							17		

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# HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA LOOKOUT RIDGE STATE/COUNTY ALASKA BOOK NO. \_\_\_\_\_ PAGE 368 OF \_\_\_\_\_  
 LINE/LOOP NO. 729 TYPE SURVEY \_\_\_\_\_ CLIENT HUCKY OIL DATE 28 BY 3 MO 80 YR  
 SURVEYOR D. HELANDER INSTRUMENT DESC/SERIAL NO. \_\_\_\_\_ CREW NO. 1182

LINE	<input type="checkbox"/> Δ <input type="checkbox"/> T <input type="checkbox"/> SS <input type="checkbox"/> O	STATION	VERTICAL						ELEVATION		L/R OR DI	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										
1	Δ	131+165	1595		88 39 22	11.4	25						1	
2	✓				271 20 32								2	
3	T	133				57.0							3	
4	S	132	880		88 35 21	11.4							4	
5	S	134	880		92 48 20	11.4							5	
6	S	135	1860		93 08 38	22.0							6	
7	S	136	2640		92 48 36	11.4							7	
8	S	137	3520		91 05 28	11.4							8	
9	O	138	4400		90 25 28	11.4	32		562.12				9	
10	✓				269 34 24								10	
11													11	
12	Δ	138	5280		90 27 09	11.4	19"						12	
13	✓				269 32 31								13	
14	T	144				57.0							14	
15	S	139	4400		91 02 20	11.4							15	
16	S	140	3520		92 00 20	22.0							16	
17	S	141	2640		91 05 16	22.0							17	

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SYMBOLS    Δ = BACKSIGHT    T = INSTRUMENT SET-UP    SS = SIDESHOT    O = FORESIGHT

# HORIZONTAL AND VERTICAL SURVEY NOTES

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GSI AREA LOOKOUT RIDGE STATE/COUNTY ALASKA BOOK NO. \_\_\_\_\_ PAGE 369 OF \_\_\_\_\_  
 LINE/LOOP NO. 729 TYPE SURVEY \_\_\_\_\_ CLIENT HUSKY OIL DATE 29 DY 3 MO 80 YR  
 SURVEYOR D. HELANDER 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 DI		RIGHT TURNED HORIZONTAL ANGLE	LINE
				SLOPE					HORIZ	INST				
1	S	142	1760		91 39 40	22.0						1		
2	S	143	880		91 27 53	11.4						2		
3	S	145	880		91 05 00	26.4						3		
4	S	146	1760		91 43 03	26.4						4		
5	S	147	2640		89 40 47	11.4						5		
6	S	148	3520		88 55 08	11.4						6		
7	⊙	149	4400		88 40 08	11.4 <sup>00</sup>			706.11			7		
8	✓				271 19 51							8		
9												9		
10	Δ	149	1155		91 22 08	11.4 <sup>13</sup>						10		
11	✓				268 37 42							11		
12	⊗	150+275				5.0						12		
13	S	150	275		89 41 08	11.4						13		
14	⊙	80160	760		89 08 13	4.0 <sup>20</sup>						14	ELEV. 752.33	
15	✓				270 51 33							15		
16												16		
17												17		

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# HORIZONTAL AND VERTICAL SURVEY NOTES

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GSI AREA UNBROOK RIDGE STATE/COUNTY ALASKA BOOK NO. \_\_\_\_\_ PAGE 370 OF \_\_\_\_\_  
 LINE/LOOP NO. 229 TYPE SURVEY \_\_\_\_\_ CLIENT HUSKY OIL DATE 29 DY 3 MO 80 YR  
 SURVEYOR D. HELANDER 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			L/R OR DIR	RIGHT TURNED HORIZONTAL ANGLE	
				SLOPE					HORIZ	INST				ROD
1	△	80160	760		89 04 19	5.0	<sup>26</sup>						1	ELEV = 752.33
2	✓				270 55 26								2	
3	X	250+275				5.0							3	
4	S	251	605		90 45 15	11.4							4	
5	S	252	1485		91 12 20	22.0							5	
6	S	253	2365		91 25 57	22.0							6	
7	S	254	3245		91 02 19	11.4							7	
8	◎	255	4125		90 16 31	11.4	<sup>30"</sup>		719.19				8	
9	✓				269 43 32								9	
10													10	
11	△	155	715		90 54 25	11.4	<sup>34</sup>						11	
12	✓				269 05 27								12	
13	↑	155+715				5.0							13	
14	S	156	165		89 21 21	11.4							14	
15	◎	157	1045		92 28 13	11.4	<sup>18</sup>		680.48				15	
16	✓				267 31 36								16	
17													17	

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SYMBOLS    △ = BACKSIGHT    ↑ = INSTRUMENT SET-UP    SS = SIDESHOT    ◎ = FORESIGHT

# HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA LOOKOUT RIDGE STATE/COUNTY ALASKA BOOK NO. \_\_\_\_\_ PAGE 371 OF \_\_\_\_\_  
 LINE/LOOP NO. 729 TYPE SURVEY \_\_\_\_\_ CLIENT MUSKY OIL DATE 29 DY 3 MO 80 YR  
 SURVEYOR D. MELANDER 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
				SLOPE	HORIZ										
1		157	2475			85 32 12	11.4	15						1	
2						274 26 42								2	
3		159+715					5.0							3	
4		158	1595			85 19 13	11.4							4	
5		159	715			84 52 17	11.4							5	
6		160	165			93 28 38	11.4							6	
7		161	1045			96 15 54	11.4							7	
8		162	1925			93 57 10	11.4							8	
9		162+165	2090			93 15 42	11.4	98		369.02				9	
10						266 44 06	4.4							10	
11														11	
12		162+165	2750			93 30 33	11.4	39						12	
13						266 29 15								13	
14		165+275					5.0							14	
15		163	2035			93 28 42	22.0							15	
16		164	1155			93 36 51	22.0							16	
17		165	285			91 23 46	11.4							17	

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



# HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA LOOKOUT RIDGE STATE/COUNTY ALASKA BOOK NO. \_\_\_\_\_ PAGE 372 OF \_\_\_\_\_  
 LINE/LOOP NO. 729 TYPE SURVEY \_\_\_\_\_ CLIENT NEUSKY OIL DATE 29 DY 3 MO 80 YR  
 SURVEYOR D MELANDER 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	LINE
				SLOPE					HORIZ	INST			
1	S	166	605		88 51 45	11.4					1		
2	S	167	1485		89 35 08	11.4					2		
3	S	168	2365		89 43 53	11.4					3		
4	S	169	3245		89 33 50	11.4					4		
5	S	170	4125		89 06 21	11.4					5		
6	S	171	5005		88 15 19	11.4					6		
7	⊙	171+495	5500		88 04 48	11.4		722.68			7		
8	✓				271 55 05						8		
9											9		
10	▲	171+495	2145		90 34 08	11.4 <sup>09</sup>					10		
11	✓				269 25 50						11		
12	✗	174				5.0					12		
13	S	172	1760		91 00 07	11.4					13		
14	S	173	880		92 17 42	11.4					14		
15	S	175	880		92 40 51	11.4					15		
16	S	176	1760		89 27 01	11.4					16		
17	S	177	2640		89 19 08	11.4					17		

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# HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA LOOKOUT RIDGE STATE/COUNTY ALASKA BOOK NO. \_\_\_\_\_ PAGE 372 OF \_\_\_\_\_  
 LINE/LOOP NO. 729 TYPE SURVEY \_\_\_\_\_ CLIENT KUSKY OIL DATE 30 DY 3 MO 80 YR  
 SURVEYOR D NELANDER INSTRUMENT DESC/SERIAL NO. \_\_\_\_\_ CREW NO. 1182

LINE	  	STATION	VERTICAL						HORIZONTAL		REMARKS		
			DISTANCE		VERTICAL ANGLE OBS.	ROD RDG OR HI	ELEV DIFF	FINAL ELEVATION DIFF	ELEVATION			L/R OR DI	RIGHT TURNED HORIZONTAL ANGLE
			SLOPE	<input type="checkbox"/> FEET <input type="checkbox"/> METERS HORIZ					INST	ROD			
1	S	178	3520		89 02 40	11.4						1	
2	O	179	4400		88 15 48	15.0	<sup>50</sup>		874.00			2	
3	✓				271 44 08							3	
4												4	
5	Δ	179	3355		92 25 47	10.0	<sup>48</sup>					5	
6	✓				266 34 10							6	
7	*	182+715				5.0						7	
8	S	180	2475		93 29 50	11.4						8	
9	S	181	1595		93 37 12	11.4						9	
10	S	182	715		94 10 00	11.4						10	
11	S	183	165		88 09 19	11.4						11	
12	O	184	1045		87 38 12	11.4	<sup>13</sup>		1116.20			12	
13	✓				272 21 46							13	
14												14	
15	Δ	184	2640		90 09 54	11.4	<sup>54</sup>					15	
16	✓				269 50 05							16	
17	*	182				5.0						17	

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**SYMBOLS**    Δ = BACKSIGHT    \* = INSTRUMENT SET-UP    SS = SIDESHOT    O = FORESIGHT

# HORIZONTAL AND VERTICAL SURVEY NOTES

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GSI AREA LOOKOUT RIDGE STATE/COUNTY ALASKA BOOK NO. \_\_\_\_\_ PAGE 274 OF \_\_\_\_\_  
 LINE/LOOP NO. 729 TYPE SURVEY \_\_\_\_\_ CLIENT HUSKY OIL DATE 30 BY J MO 80 YR \_\_\_\_\_  
 SURVEYOR D NELANDER INSTRUMENT DESC/SERIAL NO. \_\_\_\_\_ CREW NO. 1182

LINE	<input type="checkbox"/> Δ <input type="checkbox"/> SS <input type="checkbox"/> ⊙	STATION	VERTICAL							HORIZONTAL		REMARKS		
			DISTANCE		VERTICAL ANGLE OBS.	ROD RDG OR HI	ELEV DIFF	FINAL ELEVATION DIFF	ELEVATION		LR OR DI		RIGHT TURNED HORIZONTAL ANGLE	LINE
			SLOPE	<input type="checkbox"/> FEET <input type="checkbox"/> METERS HORIZ					INST	ROD				
1	S	185	1760		90 07 05	11.4						1		
2	S	186	880		90 08 48	11.4						2		
3	⊙	188	880		90 00 25	11.4	22		1123.58			3		
4	✓				269 59 41							4		
5												5		
6	Δ	188	2365		89 14 16	11.4	21					6		
7	✓				270 45 34							7		
8	⊕	190+605				5.0						8		
9	S	189	1485		89 35 53	11.4						9		
10	S	190	605		90 41 51	11.4						10		
11	S	191	275		87 57 39	11.4						11		
12	S	192	1155		88 56 27	11.4						12		
13	⊙	80158	1150		89 01 57	10.0	50		1112.95			13	ELEV. = 1111.43	
14	✓				270 58 12							14		
15												15		
16												16		
17												17		

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# HORIZONTAL AND VERTICAL SURVEY NOTES

12

GSI AREA LOOKOUT RIDGE STATE/COUNTY ALASKA BOOK NO. \_\_\_\_\_ PAGE 375 OF \_\_\_\_\_  
 LINE/LOOP NO. 729 TYPE SURVEY \_\_\_\_\_ CLIENT HUSKY OIL DATE 30 DY 3 MO 80 YR  
 SURVEYOR D. NELANDER INSTRUMENT DESC/SERIAL NO. \_\_\_\_\_ CREW NO. 1182

LINE	▲ ↑ SS ◎	STATION	VERTICAL						ELEVATION		L/R OR DI	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										
1													1	
2	▲	80158	2680		89 07 41	10.0	49						2	ELEV. 4111.43
3	✓				270 52 05								3	
4	⊗	195				5.0							4	
5	S	193	1760		88 55 15	11.4							5	
6	S	194	880		88 49 40	11.4							6	
7	S	196	880		89 47 47	11.4							7	
8	S	197	1760		90 02 42	11.4							8	
9	S	198	2640		90 09 17	5.7							9	
10	◎	198+715	3355		89 53 18	5.0	25"		1082.25				10	
11	✓				270 06 28								11	
12													12	
13	▲	198+715	4100		89 58 43	10.0	46						13	
14	✓				270 01 11								14	
15	⊗	203+40+715				5.0							15	
16	S	199	3935		89 56 22	11.4							16	
17	S	200	3055		90 06 40	4.4							17	

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SYMBOLS    ▲ = BACKSIGHT    ⊗ = INSTRUMENT SET-UP    SS = SIDESHOT    ◎ = FORESIGHT

# HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA LOOKOUT RIDGE STATE/COUNTY ALASKA BOOK NO. \_\_\_\_\_ PAGE 376 OF \_\_\_\_\_  
 LINE/LOOP NO. 122 TYPE SURVEY \_\_\_\_\_ CLIENT NUSKY OIL DATE 2 DY 4 MO 80 YR  
 SURVEYOR D. MELANDER INSTRUMENT DESC/SERIAL NO. \_\_\_\_\_ CREW NO. 1182

LINE	  	STATION	VERTICAL						ELEVATION		L/R OR DIR	HORIZONTAL RIGHT TURNED HORIZONTAL ANGLE	LINE	REMARKS
			DISTANCE	<input type="checkbox"/> FEET <input type="checkbox"/> METERS	VERTICAL ANGLE OBS.	ROD RDG OR HI	ELEV DIFF	FINAL ELEVATION DIFF	INST	ROD				
				SLOPE 										
1	S	201	2175		90 38 18	11.4						1		
2	S	202	1295		90 53 26	11.4						2		
3	S	203	415		89 37 25	11.4						3		
4	S	204	465		90 05 32	11.4						4		
5	S	205	1245		90 41 12	11.4						5		
6	S	206	2225		90 42 06	11.4						6		
7	S	207	3105		90 22 39	11.4						7		
8	⊙	208	3985		90 05 40	11.4	39		1072.81			8		
9	✓				269 54 23	11.4						9		
10												10		
11	Δ	208	4400		89 50 35	11.4	41					11		
12	✓			2	270 09 12							12		
13	Δ	212				5.0						13		
14	S	209	3520		90 03 20	11.4						14		
15	S	210	2640		90 08 52	11.4						15		
16	S	211	1760		89 52 29	11.4						16		
17	S	212	880		90 04 19	11.4						17		

WORKED BY Don & Melander CHECKED BY 1ST \_\_\_\_\_ 2ND \_\_\_\_\_

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

# HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA LOOKOUT RIDGE STATE/COUNTY ALASKA BOOK NO. \_\_\_\_\_ PAGE 377 OF \_\_\_\_\_  
 LINE/LOOP NO. 729 TYPE SURVEY \_\_\_\_\_ CLIENT MUSKY OIL DATE 2 BY 4 MO 80 YR  
 SURVEYOR D. HELANDER INSTRUMENT DESC/SERIAL NO. \_\_\_\_\_ CREW NO. 1182

LINE	  	STATION	VERTICAL						ELEVATION		L/R OR DI	HORIZONTAL RIGHT TURNED HORIZONTAL ANGLE	LINE	REMARKS
			DISTANCE	<input type="checkbox"/> FEET <input type="checkbox"/> METERS	VERTICAL ANGLE OBS.	ROD RDG OR HI	ELEV DIFF	FINAL ELEVATION DIFF	INST	ROD				
				SLOPE 										
1	S	214	880		90 06 45	11.4							1	
2	S	215	1760		90 31 09	11.4							2	
3	S	216	2640		90 36 56	11.4							3	
4	S	217	3520		90 36 14	11.4							4	
5	S	218	4400		90 33 76	11.4							5	
6	O	219	5280		90 27 47	11.4	47		1018.39				6	
7	✓				269 32 09	11.4							7	
8													8	
9	A	219	3795		90 56 22	11.4	44						9	
10	✓				269 03 04								10	
11	⌘	227+275											11	
12	S	220	2915		90 53 28	11.4							12	
13	S	221	2035		90 58 54	11.4							13	
14	S	222	1155		90 53 03	11.4							14	
15	S	223	275		89 23 38	11.4							15	
16	S	224	605		89 43 00	11.4							16	
17	S	225	1485		90 04 56	11.4							17	

WORKED BY D. K. Helander CHECKED BY 1ST \_\_\_\_\_ 2ND \_\_\_\_\_

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

# HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA LOOKOUT RIDGE STATE/COUNTY ALASKA BOOK NO. \_\_\_\_\_ PAGE 378 OF \_\_\_\_\_  
 LINE/LOOP NO. 729 TYPE SURVEY \_\_\_\_\_ CLIENT Husky Oil DATE 2 DY 4 MO 80 YR  
 SURVEYOR D. HLANDER INSTRUMENT DESC/SERIAL NO. \_\_\_\_\_ CREW NO. 1182

LINE	△ ↕ SS ⊙	STATION	VERTICAL						ELEVATION		LR OR DR	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										
1	S	226	2385		89 32 20	11.4						1		
2	⊙	227	3245		89 22 21	11.4	28		1116.36			2		
3	✓				270 37 24							3		
4												4		
5	△	227	8415		90 18 24	11.4	34					5		
6	✓				269 41 15							6		
7	⊙	230+495			0	5.0						7		
8	S	228	7535		90 22 08	11.4						8		
9	S	229	6655		90 34 11	11.4						9		
10	S	230	5775		90 45 09	11.4						10		
11	S	231	4895		90 47 32	11.4						11		
12	S	232	4015		90 47 09	11.4						12		
13	S	233	3135		90 47 06	11.4						13		
14	S	234	2255		90 41 52	11.4						14		
15	S	235	1375		90 34 03	11.4						15		
16	S	236	495	9	89 38 40	11.4						16		
17												17		

WORKED BY Don K Hlander CHECKED BY 1ST \_\_\_\_\_ 2ND \_\_\_\_\_

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# HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA LOOKOOT RIDGE STATE/COUNTY ALASKA BOOK NO. \_\_\_\_\_ PAGE 779 OF \_\_\_\_\_  
 LINE/LOOP NO. 729 TYPE SURVEY \_\_\_\_\_ CLIENT HUCKY OIL DATE 2 DY 9 MO 80 YR  
 SURVEYOR D. NEWMAN INSTRUMENT DESC/SERIAL NO. \_\_\_\_\_ CREW NO. 1182

LINE	<input type="checkbox"/> Δ <input type="checkbox"/> SS <input type="checkbox"/> ⊙	STATION	VERTICAL						ELEVATION		L/R OR DI	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										
1	S	80157	407		89 42 55 <sup>44</sup>	5.0	53						1	
2	✓				270 16 58								2	
3	S	237	385		89 13 56	11.4							3	
4	S	238	1265		90 11 04	11.4							4	
5	S	239	2145		90 13 13	11.220							5	
6	S	240	3025		90 28 53	15.0							6	
7	S	241	3905		90 24 13	22.0							7	
8	S	242	4785		90 22 52	22.0							8	
9	S	243	5665		90 22 35	22.0							9	
10	S	244	6545		90 29 34	15.0							10	
11	S	245	7425		90 27 04	11.4							11	
12	S	246	8305		90 27 16	11.4							12	
13	SS	247	9185		90 25 36	11.4							13	
14	⊙	248	10065		90 19 25	11.4	35		1105.1				14	
15	✓				269 40 16								15	
16													16	
17													17	

WORKED BY D. Newman CHECKED BY 1ST \_\_\_\_\_ 2ND \_\_\_\_\_

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# HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA LOOKOUT RIDGE STATE/COUNTY ALASKA BOOK NO. \_\_\_\_\_ PAGE 380 OF \_\_\_\_\_  
 LINE/LOOP NO. 729 TYPE SURVEY \_\_\_\_\_ CLIENT HUSKY OIL DATE 2 DY 2 MO 80 YR  
 SURVEYOR D NELSON INSTRUMENT DESC/SERIAL NO. \_\_\_\_\_ CREW NO. 118

LINE	<input type="checkbox"/> Δ <input type="checkbox"/> SS <input type="checkbox"/> ⊙	STATION	VERTICAL						HORIZONTAL		REMARKS		
			DISTANCE		VERTICAL ANGLE OBS.	ROD RDG OR HI	ELEV DIFF	FINAL ELEVATION DIFF	ELEVATION			LR OR DR	RIGHT TURNED HORIZONTAL ANGLE
			SLOPE	<input type="checkbox"/> FEET <input type="checkbox"/> METERS HORIZ					INST	ROD			
1	Δ	248	2640		89 09 53	11.4	59					1	
2	✓				270 48 52							2	
3	⊗	251				5.0						3	
4	S	249	1760		89 26 48	11.4						4	
5	S	250	880		89 37 32	11.4						5	
6	S	252	880		90 17 43	11.4						6	
7	⊙	<del>253</del> 252+495	<del>7760</del> 1375		90 74 40	11.4	50		1052.65			7	
8	✓				269 25 00							8	
9												9	
10	Δ	252+495	3520		89 44 08	11.4	18					10	
11	✓				270 15 31							11	
12	⊗	256+495										12	
13	S	253	3135		90 00 05	4.0						13	
14	S	254	2255		90 01 31	11.4						14	
15	S	255	1375		89 55 53	22.0						15	
16	S	256	495		89 18 48	11.4						16	
17	S	257	385		90 23 17	11.4						17	

WORKED BY D Nelson CHECKED BY 1ST \_\_\_\_\_ 2ND \_\_\_\_\_

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# HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA LOOKOUT RIDGE STATE/COUNTY ALASKA BOOK NO. \_\_\_\_\_ PAGE <sup>381</sup>383 OF \_\_\_\_\_  
 LINE/LOOP NO. 729 TYPE SURVEY \_\_\_\_\_ CLIENT HUCKY OIL DATE 2 DY 7 MO 80 YR  
 SURVEYOR D. McLANE 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	FINAL ELEVATION DIFF	ELEVATION			L/R OR DI	RIGHT TURNED HORIZONTAL ANGLE
				SLOPE					HORIZ	INST			
1	S	258	1265		91 00 50	11.4						1	
2	S	259	2145		89 58 47	11.4						2	
3	S	260	3025		82 41 49	11.4						3	
4	S	261	3905		89 03 39	11.4						4	
5	⊙	262	4785		88 55 30	11.4 <sup>26</sup>			1126.93			5	
6	✓				271 04 17	#						6	
7												7	
8	Δ	262	1760		89 27 28	11.4 <sup>20</sup>						8	
9	✓				268 32 08							9	
10	⊗	264				5.0						10	
11	S	263	880		91 19 00	11.4						11	
12	⊙	80/56	1440		88 34 35	4.0 <sup>82</sup>			1214.91			12	ELEV. = 1216.92
13	✓				271 25 11							13	
14												14	
15												15	
16												16	
17												17	

WORKED BY D. McLANE CHECKED BY 1ST \_\_\_\_\_ 2ND \_\_\_\_\_  
 SYMBOLS    Δ = BACKSIGHT    ⊗ = INSTRUMENT SET-UP    SS = SIDESHOT    ⊙ = FORESIGHT

# HORIZONTAL AND VERTICAL SURVEY NOTES

382

GSI AREA LOOKOUT ROAD STATE/COUNTY ALASKA BOOK NO. \_\_\_\_\_ PAGE 384 OF \_\_\_\_\_

LINE/LOOP NO. 729 TYPE SURVEY \_\_\_\_\_ CLIENT HUSKY OIL DATE 2 DY 9 MO 80 YR

SURVEYOR D. MELANDER INSTRUMENT DESC/SERIAL NO. \_\_\_\_\_ CREW NO. 1182

LINE	  	STATION	VERTICAL						ELEVATION		L/R OR DI	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		80156	1755			89 56 32	2.0						1	ELEV. = 1216.92	
2						270 03 23							2		
3		<sup>265</sup> 258+715					5.0						3		
4	S	265	715			90 48 32	11.4						4		
5	S	266	165			87 59 30	11.4						5		
6		267	1045			70 48 56	11.4	49'00"		1190.83			6		
7						269 10 55							7		
8													8		
9		267	5280			89 06 51	11.4						9		
10						270 52 00							10		
11		273					5.0						11		
12	S	268	4400			89 20 32	11.4						12		
13	S	269	3520			89 25 21	11.4						13		
14	S	270	2640			89 28 33	11.4						14		
15	S	271	1760			89 44 28	11.4						15		
16	S	272	880			89 15 28	11.4						16		
17	S	274	880			90 44 24	11.4						17		

WORKED BY Don K Melander CHECKED BY 1ST \_\_\_\_\_ 2ND \_\_\_\_\_

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

# HORIZONTAL AND VERTICAL SURVEY NOTES

20

GSI AREA AGOROUT ROAD STATE/COUNTY ALASKA BOOK NO. \_\_\_\_\_ PAGE 383 OF \_\_\_\_\_  
 LINE/LOOP NO. 729 TYPE SURVEY \_\_\_\_\_ CLIENT MUSKEY OIL DATE 2 DY 4 MO 80 YR  
 SURVEYOR D. NOLAN INSTRUMENT DESC/SERIAL NO. \_\_\_\_\_ CREW NO. 1182

LINE	<input type="checkbox"/> Δ <input type="checkbox"/> SS <input type="checkbox"/> ⊙	STATION	VERTICAL						ELEVATION		L/R OR DI	HORIZONTAL		REMARKS
			DISTANCE		VERTICAL ANGLE OBS.	ROD RDG OR HI	ELEV DIFF	FINAL ELEVATION DIFF	INST	ROD		RIGHT TURNED HORIZONTAL ANGLE	LINE	
			SLOPE	HORIZ										
1	S	275	1760		91 02 19	11.4							1	
2	S	276	2640		91 07 55	11.4							2	
3	S	<del>277</del> 276+651	<del>3530</del> 3291		91 04 49	11.4							3	SP 276+651 L-729
4	S	205/746	3293		91 03 23	11.4							4	SP 205+769 L-996
5	S	277	3520		91 05 43	11.4							5	
6	S	278	4400		90 44 18	11.4							6	
7	⊙	279	5280		<del>78 33 37</del>	<del>11.4</del>	90° 37' 18" 13"		1059.55				7	
8	✓				269 27 02		269° 22' 58"						8	
9													9	
10	Δ	279	2255		89 42 37	4.0	??						10	
11	✓				270 17 23								11	
12	✗	281+995				5.0							12	
13	S	280	1375		89 47 22	11.4							13	
14	S	281	495		89 17 52	11.4							14	
15	S	282	385		89 46 52	11.4							15	
16	S	283	1265		90 03 06	11.4							16	
17	S	284	2145		90 15 47	11.4							17	

WORKED BY D. NOLAN CHECKED BY 1ST \_\_\_\_\_ 2ND \_\_\_\_\_

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

# HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA LOOKOUT RIDGE STATE/COUNTY ALASKA BOOK NO. \_\_\_\_\_ PAGE 388 OF 389  
 LINE/LOOP NO. 729 TYPE SURVEY \_\_\_\_\_ CLIENT ROSKY OIL DATE 2 DY 9 MO 80 YR  
 SURVEYOR D. MAJOR INSTRUMENT DESC/SERIAL NO. \_\_\_\_\_ CREW NO. 1182

LINE	<input type="checkbox"/> Δ <input type="checkbox"/> SS <input type="checkbox"/> ⊕	STATION	VERTICAL						ELEVATION		L/R OR DI	HORIZONTAL		REMARKS
			DISTANCE		VERTICAL ANGLE OBS.	ROD RDG OR HI	ELEV DIFF	FINAL ELEVATION DIFF	INST	ROD		RIGHT TURNED HORIZONTAL ANGLE	LINE	
			SLOPE	<input type="checkbox"/> FEET <input type="checkbox"/> METERS HORIZ										
1	⊕	284+ <sup>SS</sup> 765	230° 2372		90 27 32	4.0	38		1030.45			1		
2	✓				269 32 15							2		
3												3		
4	Δ	284+55	2200		89 59 59	4.0	90°00'04"					4		
5	✓				269 59 50							5		
6	⊕	286+495				5.0						6		
7	S	285	1375		90 02 58	22.0						7		
8	S	286	880 495		88 56 03	11.4						8		
9	S	287	385		89 55 48	11.4						9		
10	S	288	1265		91 05 50	11.4						10		
11	S	289	2145		90 04 17	11.4						11		
12	⊕	290	3025		90 11 00	11.4	04"		1013.51			12		
13	✓				269 48 52							13		
14												14		
15	Δ	290	1595		89 48 11	11.4	18					15		
16	✓				270 11.35							16		
17	⊕	291+715				5.0						17		

WORKED BY D. K. Meland CHECKED BY 1ST \_\_\_\_\_ 2ND \_\_\_\_\_

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

# HORIZONTAL AND VERTICAL SURVEY NOTES

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GSI AREA LOOKOUT RIDGE STATE/COUNTY ALASKA BOOK NO. \_\_\_\_\_ PAGE 385 OF \_\_\_\_\_  
 LINE/LOOP NO. 729 TYPE SURVEY \_\_\_\_\_ CLIENT HUSKY 8/2 DATE 3 DY 4 MO 80 YR  
 SURVEYOR D. NELANDE 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 DI	RIGHT TURNED HORIZONTAL ANGLE
				SLOPE					HORIZ	INST			
1	S	291	715		89 21 45	11.4						1	
2	S	80155	660		89 13 47	4.0	57		1024.27			2	ELEV. = 1024.29
3	✓				270 45 53							3	
4	S	292	165		<del>271 07 34</del>	11.4			88°52'26"			4	
5	S	293	1045		26 91 06 20	22.0						5	
6	S	294	1925		90 59 27	11.4						6	
7	⊙	295	2805		89 49 10	11.4	18		1016.92			7	
8	✓				270 10 33							8	
9												9	
10	△	295	2035		91 27 21	11.4	32					10	
11	✓			28°	268 32 17							11	
12	⊕	297+275				5.0						12	
13	S	296	1155		91 34 49	11.4						13	
14	S	297	275		89 39 25	11.4						14	
15	S	<del>80154</del>	227		90 12 18	4.0	28		1075.22			15	ELEV. = 1074.82
16	✓				269 47 23							16	
17	S	298	805		90 20 12	11.4						17	

WORKED BY Don K. Nelander CHECKED BY 1ST \_\_\_\_\_ 2ND \_\_\_\_\_  
 SYMBOLS    △ = BACKSIGHT    ⊕ = INSTRUMENT SET-UP    SS = SIDESHOT    ⊙ = FORESIGHT

HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA LOOKOUT RIDGE STATE/COUNTY ALASKA BOOK NO. \_\_\_\_\_ PAGE 386 OF \_\_\_\_\_  
 LINE/LOOP NO. 729 TYPE SURVEY \_\_\_\_\_ CLIENT RUSKY OIL DATE 3 DY 4 MO 80 YR  
 SURVEYOR D. HELANDER INSTRUMENT DESC/SERIAL NO. \_\_\_\_\_ CREW NO. 1182

LINE	<input type="checkbox"/> Δ <input type="checkbox"/> SS <input type="checkbox"/> ○	STATION	VERTICAL					ELEVATION		L/R OR DI	HORIZONTAL		REMARKS	
			DISTANCE		VERTICAL ANGLE OBS.	ROD RDG OR HI	ELEV DIFF	FINAL ELEVATION DIFF	INST		ROD	RIGHT TURNED HORIZONTAL ANGLE		LINE
			SLOPE	<input type="checkbox"/> FEET <input type="checkbox"/> METERS HORIZ										
1	S	299	1485		90 23 37	11.4						1		
2	S	300	2365		90 02 03	11.4						2		
3	S	301	3245		89 52 20	11.4						3		
4	○	302	4125		89 47 41	4.0	46		1091.07			4		
5	✓				270 12 08							5		
6												6		
7	Δ	302	880		91 06 10	9.0	15					7		
8	✓				268 51 40							8		
9	Δ	<del>F-306</del> 303	<del>880</del>			5.0						9		
10	S	304	880		89 00 16	6.0						10		
11	S	T-305	1760		88 40 09	4.0						11		
12	S	T-306	2640		88 40 15	4.0						12		
13	S	T-307	3520		88 28 39	4.0						13		
14	S	T-308	4400		88 22 30	4.0						14		
15	S	T-309	5280		88 21 57	4.0						15		
16	S	T-310	6160		88 21 50	4.0						16		
17												17		

WORKED BY Derek Mank CHECKED BY 1ST \_\_\_\_\_ 2ND \_\_\_\_\_

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# HORIZONTAL AND VERTICAL SURVEY NOTES

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GSI AREA LOOKOUT RIDGE STATE/COUNTY ALASKA BOOK NO. \_\_\_\_\_ PAGE 387 OF \_\_\_\_\_  
 LINE/LOOP NO. 729 TYPE SURVEY \_\_\_\_\_ CLIENT NO. 101 OIL DATE 3 DY 4 MO 80 YR  
 SURVEYOR D. PELANDER 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		L/R OR DI		RIGHT TURNED HORIZONTAL ANGLE
				SLOPE					HORIZ	INST			
1												1	
2	⊙	TPI	3135		90 51 10	4.0	22		1061.38			2	299+305
3	✓				269 08 26							3	
4												4	
5	△	TPI	1760		90 22 39	4.0	25					5	
6	✓				269 32 09							6	
7	↕	Z52				5.0						7	SP 297+495
8	⊙	80154	420		89 54 54	4.0	56					8	ELEV 1074.82
9	✓				270 05 03							9	
10												10	
11												11	
12												12	
13												13	
14												14	
15												15	
16												16	
17												17	

WORKED BY D. Pelander CHECKED BY 1ST \_\_\_\_\_ 2ND \_\_\_\_\_  
 SYMBOLS    △ = BACKSIGHT    ↕ = INSTRUMENT SET-UP    SS = SIDESHOT    ⊙ = FORESIGHT