

T.B.M. @ 3 p.m.
- 29

HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA Utukok River STATE/COUNTY AK. BOOK NO. _____ PAGE 280 OF _____
 LINE/LOOP NO. 227 TYPE SURVEY _____ CLIENT Husky Oil DATE 5 DY 3 MO 80 YR
 SURVEYOR Peretz INSTRUMENT DESC/SERIAL NO. _____ CREW NO. 1182

LINE	 	STATION	VERTICAL						ELEVATION		L/R OR DI	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												1		
2		80255	7645			89°58'23" 11.4						2	Elev. 828.52	
3						270°01'00" 11.4						3		
4		129	7920			89°59'40" 11.4						4		
5		128	7040			90°01'50" 11.4						5		
6		127	6160			90°07'50" 11.4						6		
7		126	5280			90°25'00" 11.4						7		
8		125	4400			90°58'20" 11.4						8		
9		124	3520			91°30'40" 11.4						9		
10		123	2640			91°44'20" 11.4						10		
11		122	1760			91°33'40" 11.4						11		
12		121	880			91°26'00" 11.4						12		
13		120	0			90°00'00" 5.4						13		
14		119	880			88°32'00" 11.4						14		
15		118	1760			88°32'00" 11.4						15		
16												16		
17												17		

WORKED BY Samuel Perry CHECKED BY 1ST _____ 2ND _____

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

HORIZONTAL AND VERTICAL SURVEY NOTES

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GSI AREA Utukok River STATE/COUNTY AK. BOOK NO. _____ PAGE 281 OF _____
 LINE/LOOP NO. 727 TYPE SURVEY _____ CLIENT Husky Oil DATE 5 DY 3 MO 80 YR
 SURVEYOR Perez INSTRUMENT DESC/SERIAL NO. _____ CREW NO. 1182

LINE	<input type="checkbox"/> Δ <input type="checkbox"/> ∇ <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												1		
2		117	2640			88°34'20"	11.4						2	
3		116	3520			88°37'20"	11.4						3	
4		115	4400			88°35'30"	11.4						4	
5	\odot	114	5280			88°40'52"	11.4						5	
6	\odot					271°18'45"	11.4						6	
7													7	
8						88°23'46"	11.4						8	
9	Δ	114	6325			271°35'39"	11.4						9	
10	Δ												10	
11		113	5445			88°30'30"	11.4						11	
12		112	4565			88°34'30"	11.4						12	
13		111	3685			88°48'20"	11.4						13	
14		110	2805			89°45'10"	11.4						14	
15		109	1925			91°57'20"	11.4						15	
16													16	
17													17	

WORKED BY Jacob Perez CHECKED BY 1ST _____ 2ND _____
 SYMBOLS Δ = BACKSIGHT ∇ = INSTRUMENT SET-UP SS = SIDESHOT \odot = FORESIGHT

HORIZONTAL AND VERTICAL SURVEY NOTES

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GSI AREA Utukok River STATE/COUNTY AKL BOOK NO. _____ PAGE 282 OF _____
 LINE/LOOP NO. 737 TYPE SURVEY _____ CLIENT Husky Oil DATE 5 DY 5 MO 80 YR
 SURVEYOR Perez INSTRUMENT DESC/SERIAL NO. _____ CREW NO. 1182

LINE	<input type="checkbox"/> Δ <input type="checkbox"/> ∇ <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 DI	RIGHT TURNED HORIZONTAL ANGLE	LINE
				SLOPE					HORIZ	INST				
1												1		
2		108	1045			95°41'40"	11.4					2		
3		107	165			92°35'30"	11.4					3		
4	∇	106+715	0			90°00'00"	5.2					4		
5		106	715			92°52'30"	11.4					5		
6		105	1595			92°41'30"	11.4					6		
7		104	2475			89°38'40"	11.4					7		
8		103	3355			88°48'10"	11.4					8		
9		102	4235			88°31'20"	11.4					9		
10		101	5115			88°16'30"	11.4					10		
11		100	5995			88°06'20"	11.4					11		
12		TS 99	6875			87°53'30"	11.4					12		
13		TS 98	7755			87°47'20"	4.0					13		
14		TS 97	8635			87°42'10"	4.0					14		
15		TS 96	9515			87°44'30"	4.0					15		
16		TS 95	10395			87°47'00"	4.0					16		
17		TS 94	11275			87°50'40"	4.0					17		

WORKED BY Sabriel Perez CHECKED BY 1ST _____ 2ND _____

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

HORIZONTAL AND VERTICAL SURVEY NOTES

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GSI AREA Utukok River STATE/COUNTY AK. BOOK NO. _____ PAGE 283 OF _____
 LINE/LOOP NO. 727 TYPE SURVEY _____ CLIENT Husky Oil DATE 5 DY 3 MO 80 YR
 SURVEYOR Perez 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										
1														
2		<u>80257</u>	<u>59.80</u>			<u>88°06'36"</u>	<u>11.4</u>							<u>Elev. 970.03</u>
3						<u>271°52'58"</u>	<u>11.4</u>							
4														
5														
6														
7														
8														
9														
10														
11														
12														
13														
14														
15														
16														
17														

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

HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA Utuqok River STATE/COUNTY AK. BOOK NO. _____ PAGE 284 OF _____
 LINE/LOOP NO. 727 TYPE SURVEY _____ CLIENT Husky Oil DATE 6 BY 3 MO 80 YR
 SURVEYOR Perez 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													1		
2		<u>802.55</u>	<u>1155</u>			<u>87°55'28"</u>	<u>11.4</u>							2	<u>Elev. 828.52</u>
3						<u>272°03'53"</u>	<u>11.4</u>							3	
4		<u>130</u>	<u>0</u>			<u>90°00'00"</u>	<u>5.2</u>							4	
5		<u>131</u>	<u>880</u>			<u>91°57'50"</u>	<u>11.4</u>							5	
6		<u>132</u>	<u>1760</u>			<u>91°58'10"</u>	<u>11.4</u>							6	
7		<u>133</u>	<u>2640</u>			<u>91°57'20"</u>	<u>11.4</u>							7	
8		<u>133+824</u>	<u>3464</u>			<u>91°58'10"</u>	<u>11.4</u>							8	<u>Int. L-734 = 200+325</u>
9			<u>3485</u>			<u>91°54'30"</u>	<u>11.4</u>							9	<u>SP 200 L-734</u>
10		<u>134</u>	<u>3520</u>			<u>91°57'40"</u>	<u>11.4</u>							10	
11		<u>135</u>	<u>4400</u>			<u>92°02'37"</u>	<u>11.4</u>							11	
12		<u>136</u>	<u>5280</u>			<u>92°06'24"</u>	<u>11.4</u>							12	
13						<u>276 267°53'02"</u>	<u>11.4</u>							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 Utukok River STATE/COUNTY AK BOOK NO. _____ PAGE 285 OF _____
 LINE/LOOP NO. 227 TYPE SURVEY _____ CLIENT Husky Oil DATE 6 BY 3 MO 80 YR
 SURVEYOR Perez 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				ROD
1												1		
2		136	5775		90°43'06"	11.4							2	
3					267°16'30"	11.4							3	
4		137	4895		91°20'40"	11.4							4	
5		138	4015		92°10'40"	11.4							5	
6		139	3135		93°24'40"	11.4							6	
7		140	2255		94°23'10"	11.4							7	
8		141	1375		94°20'50"	11.4							8	
9		142	495		93°38'30"	11.4							9	
10		142 + 495	0		90°00'00"	5.2							10	
11		143	385		86°42'10"	11.4							11	
12		144	1265		87°16'30"	11.4							12	
13		145	2145		87°26'35"	22.0							13	
14					272°53'00"	22.0							14	
15													15	
16													16	
17													17	

+ 54 pms

WORKED BY Enril Perez CHECKED BY 1ST _____ 2ND _____

SYMBOLS

= BACKSIGHT

= INSTRUMENT SET-UP

= SIDESHOT

= FORESIGHT

HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA Utukok River STATE/COUNTY AK BOOK NO. _____ PAGE 286 OF _____
 LINE/LOOP NO. 127 TYPE SURVEY _____ CLIENT Husky Oil DATE 6 DY 3 MO 80 YR
 SURVEYOR Perez 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													1		
2		145	4400		90° 01' 26"	11.4								2	
3					269° 58' 00"	11.4								3	
4		146	3520		90° 45' 30"	11.4								4	
5		147	2640		98° 47' 40"	11.4								5	
6		148	1760		92° 05' 00"	11.4								6	
7		149	880		91° 36' 30"	11.4								7	
8		150	0		90° 00' 00"	5.2								8	
9		151	880		89° 30' 20"	11.4								9	
10		152	1760		88° 47' 10"	11.4								10	
11		153	2640		88° 42' 40"	11.4								11	
12		154	3520		88° 33' 10"	11.4								12	
13		155	4400		88° 29' 30"	11.4								13	
14		156	5280		88° 21' 38"	11.4								14	
15					271° 47' 48"	11.4								15	
16					3' 50"									16	
17														17	

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HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA Utukok River STATE/COUNTY AK. BOOK NO. _____ PAGE 287 OF _____
 LINE/LOOP NO. 727 TYPE SURVEY _____ CLIENT Husky Oil DATE 6 BY 3 MO 80 YR
 SURVEYOR Perez INSTRUMENT DESC/SERIAL NO. _____ CREW NO. 1182

LINE	<input type="checkbox"/> ∇ <input type="checkbox"/> ∇ <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 DI	RIGHT TURNED HORIZONTAL ANGLE	LINE
				SLOPE					HORIZ	INST				
1												1		
2	∇	156	3520			90° 03' 32"	11.4						2	
3	∇					269° 56' 04"	11.4						3	
4		157	2640			89° 59' 10"	11.4						4	
5		158	1760			90° 07' 40"	11.4						5	
6		159	880			89° 58' 20"	11.4						6	
7	∇	160	0			90° 00' 00"	5.4						7	
8		161	880			89° 26' 50"	11.4						8	
9	SS	80258	1720			89° 24' 00"	11.4						9	ELEV. 927.18
10	SS					270° 35' 34"	11.4						10	
11		162	1760			89° 19' 20"	11.4						11	
12	\odot	162+385	2145			89° 35' 31"	11.4						12	
13	\odot					270° 24' 03"	11.4						13	
14													14	
15													15	
16													16	
17													17	

WORKED BY Jabril Perez CHECKED BY 1ST _____ 2ND _____
 SYMBOLS ∇ = BACKSIGHT ∇ = INSTRUMENT SET-UP SS = SIDESHOT \odot = FORESIGHT

HORIZONTAL AND VERTICAL SURVEY NOTES

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GSI AREA Utukok River STATE/COUNTY AK. BOOK NO. _____ PAGE 288 OF _____
 LINE/LOOP NO. 727 TYPE SURVEY _____ CLIENT Musky Cat DATE 6 DY 3 MO 80 YR
 SURVEYOR Perez 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													1		
2		162+385	5775			88°51'52"	11.4							2	
3						271°07'44"	11.4							3	
4		163	5280			88°56'00"	11.4							4	
5		164	4400			89°07'50"	11.4							5	
6		165	3520			89°05'40"	11.4							6	
7		166	2640			89°18'30"	11.4							7	
8		167	1760			89°30'20"	11.4							8	
9		168	880			89°15'00"	11.4							9	
10		169	0			90°00'00"	5.2							10	
11		170	280			91°32'20"	11.4							11	
12		171	1760			91°59'50"	11.4							12	
13		172	2640			91°21'10"	11.4							13	
14		173	3520			90°43'20"	11.4							14	
15		174	4400			90°39'44"	11.4							15	
16						269°19'50"	11.4							16	
17														17	

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

HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA Ukuk River STATE/COUNTY AK. BOOK NO. _____ PAGE 289 OF _____
 LINE/LOOP NO. 127 TYPE SURVEY _____ CLIENT Husky Oil DATE 7 BY 3 MO 80 YR
 SURVEYOR Peretz 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													1		
2		174	3520		89°57'01"	11.4								2	
3					270°22'50"	11.4								3	
4		175	2640		90°41'10"	11.4								4	
5		176	1760		90°43'50"	11.4								5	
6		177	880		90°12'30"	11.4								6	
7		178	0		90°00'00"	5.2								7	
8		179	880		90°42'32"	11.4								8	
9					269°17'25"	11.4								9	
10														10	
11					89°15'47"	11.4								11	
12		179	5005		270°44'02"	11.4								12	
13														13	
14		180	4125		89°36'00"	11.4								14	
15		181	3245		90°06'10"	11.4								15	
16		182	2365		91°12'40"	11.4								16	
17														17	

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

HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA Mukok River STATE/COUNTY AK. BOOK NO. _____ PAGE 290 OF _____
 LINE/LOOP NO. 227 TYPE SURVEY _____ CLIENT Husky Oil DATE 9 BY 3 MO 80 YR
 SURVEYOR Perez INSTRUMENT DESC/SERIAL NO. _____ CREW NO. 1182

11

LINE	△ ↑ SS ⊙	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	LINE
			SLOPE	FEET METERS					INST	ROD				
1												1		
2		183	1485		91° 40' 50"	11.4						2		
3		184	605		91° 12' 40"	11.4						3		
4	↑	184+605	0		90° 00' 00"	5.2						4		
5		185	275		88° 17' 20"	11.4						5		
6		186	1155		89° 40' 30"	11.4						6		
7		187	2035		89° 27' 30"	11.4						7		
8		188	2915		89° 16' 00"	11.4						8		
9		189	3795		89° 16' 20"	11.4						9		
10		190	4675		89° 09' 50"	11.4						10		
11	⊙	190+610	5285		89° 12' 28"	11.4						11		
12	⊙				270° 47' 28"	11.4						12		
13												13		
14												14		
15	△	190+610	4670		91° 10' 08"	11.4						15		
16	△				268° 49' 38"	11.4						16		
17												17		

185
- 3947

30"

15"

WORKED BY Jabriel Perez CHECKED BY 1ST _____ 2ND _____
 SYMBOLS △ = BACKSIGHT ↑ = INSTRUMENT SET-UP SS = SIDESHOT ⊙ = FORESIGHT

HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA Utukok River STATE/COUNTY AK. BOOK NO. _____ PAGE 291 OF _____
 LINE/LOOP NO. 727 TYPE SURVEY _____ CLIENT Husky Oil DATE 9 DY 3 MO 80 YR
 SURVEYOR Perce INSTRUMENT DESC/SERIAL NO. _____ CREW NO. 1182

LINE	 	STATION	VERTICAL						ELEVATION		L/R OR DI	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				
1													1	
2		191	4400			91°21'30"	11.4						2	
3		192	3520			91°43'10"	11.4						3	
4		193	2640			92°07'46"	11.4						4	
5		194	1760			91°55'30"	22.0						5	
6		195	880			91°43'00"	11.4						6	
7		196	0			90°00'00"	5.4						7	
8		197	880			89°09'00"	11.4						8	
9		198	1760			89°12'30"	11.4						9	
10		199	2640			88°56'50"	11.4						10	
11		200	3520			88°41'40"	11.4						11	
12		201	4400			88°37'58"	11.4						12	
13		202	5280			88°46'50"	11.4						13	
14						271°13'04"	11.4						14	
15													15	
16													16	
17													17	

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

HORIZONTAL AND VERTICAL SURVEY NOTES

13

GSI AREA Utuoke River STATE/COUNTY AK. BOOK NO. _____ PAGE 292 OF _____
 LINE/LOOP NO. 727 TYPE SURVEY _____ CLIENT Huskey Oil DATE 9 DY 3 MO 80 YR
 SURVEYOR Perez 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 DI	RIGHT TURNED HORIZONTAL ANGLE	LINE
				SLOPE					HORIZ	INST				
1												1		
2	A	202	8800		87°07'18"	11.4							2	
3	A				278°52'31"	11.4							3	
4		203	7920		87°04'10"	11.4							4	
5		204	7040		87°10'10"	11.4							5	
6		205	6160		87°22'10"	11.4							6	
7		206	5280		87°37'40"	11.4							7	
8		207	4400		87°40'00"	11.4							8	
9		208	3520		87°54'00"	11.4							9	
10		209	2640		88°12'30"	11.4							10	
11		210	1760		88°18'20"	11.4							11	
12		211	880		88°09'50"	11.4							12	
13	π	212	0		90°00'00"	5.5							13	
14	SS	202.59	386		88°12'18"	11.4							14	ERU 331.85
15	SS				271°47'31"	11.4							15	
16		213	880		90°23'30"	11.4							16	
17													17	

WORKED BY Subriel Perez CHECKED BY 1ST _____ 2ND _____
 SYMBOLS △ = BACKSIGHT ↕ = INSTRUMENT SET-UP SS = SIDESHOT ⊙ = FORESIGHT

HORIZONTAL AND VERTICAL SURVEY NOTES

14

GSI AREA Utukok River STATE/COUNTY AK. BOOK NO. _____ PAGE 293 OF _____
 LINE/LOOP NO. 727 TYPE SURVEY _____ CLIENT Husky Oil DATE 9 DY 3 MO 80 YR
 SURVEYOR Perez INSTRUMENT DESC/SERIAL NO. _____ CREW NO. 1182

LINE	<input type="checkbox"/> Δ <input type="checkbox"/> ∇ <input type="checkbox"/> SS <input type="checkbox"/> \odot	STATION	VERTICAL						ELEVATION		LR 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													1		
2		214	1760			90°48'40"	11.4							2	
3		215	2640			90°58'40"	11.4							3	
4		216	3520			90°58'40"	11.4							4	
5		217	4400			90°52'50"	11.4							5	
6		218	5280			90°46'40"	11.4							6	
7	\odot	219	6160			90°44'12"	11.4							7	
8	\odot					269°15'41"	11.4							8	
9														9	
10														10	
11	Δ	219	7920			89°35'59"	11.4							11	
12	Δ					270°24'01"	11.4							12	
13		220	7040			89°36'40"	11.4							13	
14		221	6160			89°38'30"	11.4							14	
15		222	5280			89°38'00"	11.4							15	
16														16	
17														17	

16"

WORKED BY Samuel Perry CHECKED BY 1ST _____ 2ND _____
 SYMBOLS Δ = BACKSIGHT ∇ = INSTRUMENT SET-UP ∇ = SIDESHOT \odot = FORESIGHT

HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA CHUKOK RIVER STATE/COUNTY AK. BOOK NO. _____ PAGE 294 OF _____
 LINE/LOOP NO. 727 TYPE SURVEY _____ CLIENT Husky Oil DATE 10 DY 3 MO 80 YR
 SURVEYOR POLY 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		LR OR DI		RIGHT TURNED HORIZONTAL ANGLE	LINE
				SLOPE					HORIZ	INST				
1												1		
2		223	4400			89°36'50"	11.4						2	
3		224	3520			89°35'30"	11.4						3	
4		225	2640			89°33'20"	11.4						4	
5		226	1760			89°36'40"	11.4						5	
6		227	880			90°21'50"	11.4						6	
7	⊗	228	0			90°00'00"	5.2						7	
8		229	880			89°48'30"	11.4						8	
9		230	1760			90°22'30"	11.4						9	
10		231	2640			90°04'30"	11.4						10	
11	⊙	232	3520			90°02'23"	11.4						11	
12	⊙					269°57'34"	11.4						12	
13													13	
14													14	
15	A	233	7920			89°48'52"	11.4						15	
16	A					270°10'43"	11.4						16	
17													17	

WORKED BY Jacob Poly CHECKED BY 1ST _____ 2ND _____

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

HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA Utukok River STATE/COUNTY AK. BOOK NO. _____ PAGE 295 OF _____
 LINE/LOOP NO. 727 TYPE SURVEY _____ CLIENT Husky Oil DATE 10 BY 3 MO 80 YR
 SURVEYOR Perez 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											HORIZ
1													1		
2		233	7040			89°48'30"	11.4							2	
3		234	6160			89°49'30"	11.4							3	
4		235	5280			89°50'30"	11.4							4	
5		236	4400			89°52'00"	11.4							5	
6		237	3520			90°00'30"	11.4							6	
7		238	2640			90°07'10"	11.4							7	
8		239	1760			90°15'30"	11.4							8	
9		240	880			90°12'30"	11.4							9	
10	π	241	0			90°00'00"	5.2							10	
11		242	880			89°16'30"	11.4							11	
12		243	1760			89°23'20"	11.4							12	
13		244	3520 2640			89°31'30"	11.4							13	
14		245	4400 3520			89°38'40"	11.4							14	
15	◎	245 + 495	4895 4015			89°42'24"	11.4							15	
16	◎					270°18'00"	11.4							16	
17														17	

1454 Spins

WORKED BY José Luis Pérez CHECKED BY 1ST _____ 2ND _____
 SYMBOLS Δ = BACKSIGHT π = INSTRUMENT SET-UP SS = SIDESHOT ◎ = FORESIGHT

HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA Utukok River STATE/COUNTY AK. BOOK NO. _____ PAGE 296 OF _____
 LINE/LOOP NO. 727 TYPE SURVEY _____ CLIENT Haskey Oil DATE 10 BY 3 MO 80 YR
 SURVEYOR Perez 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		RIGHT TURNED HORIZONTAL ANGLE		LINE
				SLOPE					HORIZ	INST			
1													
2	Δ	245+495	8580		87°49'35"	11.4							
3	Δ				270°10'00"	11.4							
4		246	8195		87°49'50"	11.4							
5		247	7315		87°48'20"	11.4							
6		248	6435		87°47'20"	11.4							
7		249	5555		87°48'40"	11.4							
8		250	4675		90°01'40"	11.4							
9		251	3795		90°10'50"	11.4							
10		252	2915		90°15'20"	11.4							
11		253	2035		90°24'30"	11.4							
12		254	1155		90°44'40"	11.4							
13		255	275		90°06'30"	11.4							
14	Δ	255+275	0		90°00'00"	5.5							
15		256	605		89°53'20"	11.4							
16													
17													

155+ 3 PINS

WORKED BY Samuel Perez CHECKED BY 1ST _____ 2ND _____
 SYMBOLS Δ = BACKSIGHT ⊙ = FORESIGHT
 ⊕ = INSTRUMENT SET-UP SS = SIDESHOT

HORIZONTAL AND VERTICAL SURVEY NOTES

18

GSI AREA Utukok River STATE/COUNTY AK. BOOK NO. _____ PAGE 297 OF _____
 LINE/LOOP NO. 727 TYPE SURVEY _____ CLIENT Husky Oil DATE 10 BY 3 MO 80 YR
 SURVEYOR Percz 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				ROD
1												1		
2		257	1485			90°54'00"	11.4						2	
3		258	2365			90°35'30"	11.4						3	
4		259	3245			90°27'20"	11.4						4	
5		260	4125			90°04'40"	11.4						5	
6	SS	86260	3961.34			89°58'33"	11.4						6	Elev. 351.69
7	SS					270°01'33"	11.4						7	
8	⊙	261	5005			90°05'39"	11.4						8	
9	⊙					269°54'26"	11.4						9	
10													10	
11													11	
12	A	261	7920			90°50'36"	11.4						12	
13	A					269°09'30"	11.4						13	
14		262	7040			91°04'00"	11.4						14	
15		263	6160			91°13'20"	11.4						15	
16													16	
17													17	

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

HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA Utukok River STATE/COUNTY AK. BOOK NO. _____ PAGE 298 OF _____
 LINE/LOOP NO. 727 TYPE SURVEY _____ CLIENT Husky Oil DATE 11 BY 3 MO 80 YR
 SURVEYOR Perez INSTRUMENT DESC/SERIAL NO. _____ CREW NO. 1182

LINE	<input type="checkbox"/> Δ <input type="checkbox"/> T <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		L/R OR DI		RIGHT TURNED HORIZONTAL ANGLE	
			SLOPE	<input type="checkbox"/> FEET <input type="checkbox"/> METERS HORIZ					INST	ROD				
1												1		
2		264	5280		91°20'20"	11.4							2	
3		265	4400		91°35'50"	11.4							3	
4		266	3520		92°02'10"	11.4							4	
5		267	2640		91°56'20"	11.4							5	
6		268	1760		91°48'10"	11.4							6	
7		269	880		91°28'10"	11.4							7	
8	T	270	0		90°00'00"	5.2							8	
9		271	880		88°46'20"	11.4							9	
10		272	1760		89°03'00"	11.4							10	
11	⊙	272+495	2255		89°13'42"	11.4							11	
12	⊙				270°46'13"	11.4							12	44"
13													13	
14													14	
15	Δ	272+495	8305		89°50'41"	11.4							15	12"
16	Δ				270°09'17"	11.4							16	
17													17	

272 +
5 PINS

WORKED BY Jabriel Perez CHECKED BY 1ST _____ 2ND _____
 SYMBOLS Δ = BACKSIGHT T = INSTRUMENT SET-UP SS = SIDESHOT ⊙ = FORESIGHT

HORIZONTAL AND VERTICAL SURVEY NOTES

20

GSI AREA Utukok River STATE/COUNTY AK. BOOK NO. _____ PAGE 299 OF _____
 LINE/LOOP NO. 727 TYPE SURVEY _____ CLIENT Husky Oil DATE 11 BY 3 MO 80 YR
 SURVEYOR Perez 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												1		
2		273	7920		89°51'10"	11.4							2	
3		274	7040		89°51'10"	11.4							3	
4		275	6160		89°49'20"	11.4							4	
5		276	5280		89°48'50"	11.4							5	
6		277	4400		89°47'40"	11.4							6	
7		278	3520		89°46'20"	11.4							7	
8		279	2640		89°46'00"	11.4							8	
9		280	1760		89°53'00"	11.4							9	
10		281	880		89°40'50"	11.4							10	
11		282	0		90°00'00"	5.5							11	
12		283	880		89°41'00"	11.4							12	
13		284	1760		89°49'10"	11.4							13	
14		285	2640		90°08'40"	11.4							14	38"
15					267°51'25"	11.4							15	
16													16	
17													17	

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

HORIZONTAL AND VERTICAL SURVEY NOTES

21

GSI AREA Utuok River STATE/COUNTY AK BOOK NO. _____ PAGE 300 OF _____
 LINE/LOOP NO. 227 TYPE SURVEY _____ CLIENT Husky DATE 11 DY 3 MO 80 YR
 SURVEYOR P2122 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													1		
2		285	9955		89°18'06"	11.4								2	
3					27°41'47"	11.4								3	
4		286	9075		89°24'40"	11.4								4	
5		287	8195		89°28'00"	11.4								5	
6		288	7315		89°27'00"	11.4								6	
7		289	6435		89°25'40"	11.4								7	
8		290	5555		89°32'50"	11.4								8	
9		291	4675		89°38'00"	11.4								9	
10		292	3795		89°46'10"	11.4								10	
11		293	2915		89°53'00"	11.4								11	
12		294	2035		90°03'40"	11.4								12	
13		295	1155		90°00'30"	11.4								13	
14		296	875		89°33'00"	11.4								14	
15		296+275	0		90°00'00"	5.4								15	
16														16	
17														17	

89°

3 pins

WORKED BY Jabril Pelay CHECKED BY 1ST _____ 2ND _____

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

HORIZONTAL AND VERTICAL SURVEY NOTES

22

GSI AREA Utukok River STATE/COUNTY AK. BOOK NO. _____ PAGE 301 OF _____
 LINE/LOOP NO. 727 TYPE SURVEY _____ CLIENT Husky Oil DATE 11 BY 3 MO 80 YR
 SURVEYOR Perez INSTRUMENT DESC/SERIAL NO. _____ CREW NO. 1182

LINE	<input type="checkbox"/> Δ <input type="checkbox"/> ∟ <input type="checkbox"/> SS <input type="checkbox"/> ⊙	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													1		
2		297	605			89° 50' 46"	11.4							2	
3		298	1485			90° 43' 30"	11.4							3	
4		299	2365			90° 37' 40"	11.4							4	
5		300	3245			90° 26' 20"	11.4							5	
6		301	4125			90° 10' 30"	11.4							6	
7		302	5005			90° 08' 50"	11.4							7	
8		303	5885			90° 10' 10"	11.4							8	
9		304	6765			90° 06' 40"	11.4							9	34"
10	⊙	305	7645			90° 04' 38"	11.4							10	
11	⊙					267° 55' 30"	11.4							11	
12														12	
13														13	04"
14	Δ	305	880			89° 08' 00"	11.4							14	
15	Δ					270° 51' 51"	11.4							15	
16														16	
17														17	

WORKED BY Sabriel Perez CHECKED BY 1ST _____ 2ND _____
 SYMBOLS Δ = BACKSIGHT ∟ = INSTRUMENT SET-UP SS = SIDESHOT ⊙ = FORESIGHT

HORIZONTAL AND VERTICAL SURVEY NOTES

23

GSI AREA Utukok River STATE/COUNTY AK. BOOK NO. _____ PAGE 302 OF _____
 LINE/LOOP NO. 727 TYPE SURVEY _____ CLIENT Husky Oil DATE 11 BY 3 MO 80YR
 SURVEYOR Perez 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										
1													1	
2	SS	80261	625		90°04'16"	5.0							2	Elev. 317.31
3	SS				269°55'39"	5.0							3	
4	T	306	0		90°00'00"	5.4							4	
5		307	880		90°03'00"	11.4							5	
6		308	1760		90°14'10"	11.4							6	
7		309	2640		90°23'20"	11.4							7	
8	⊙	309+275	2915		90°29'29"	11.4							8	
9	⊙				269°30'41"	11.4							9	
10													10	
11													11	
12	Δ	309+275	5005		90°28'25"	11.4							12	
13	A				269°31'36"	11.4							13	
14		310	4400		90°43'10"	11.4							14	
15		311	3520		90°52'30"	22.0							15	
16													16	
17													17	

309 + 275
3 FMS

19"

24"

WORKED BY Sabid Perez CHECKED BY 1ST _____ 2ND _____
 SYMBOLS Δ = BACKSIGHT T = INSTRUMENT SET-UP SS = SIDESHOT ⊙ = FORESIGHT

HORIZONTAL AND VERTICAL SURVEY NOTES

24

GSI AREA Utukok River STATE/COUNTY AK BOOK NO. _____ PAGE 303 OF _____
 LINE/LOOP NO. 727 TYPE SURVEY _____ CLIENT Harley Oil DATE 12 BY 3 MO 80 YR
 SURVEYOR Peter 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				ROD
1												1		
2		312	2640		90°42'30"	11.4							2	
3		313	1760		90°39'40"	11.4							3	
4		314	880		90°19'20"	11.4							4	
5		315	0		90°00'00"	5.4							5	
6		316	880		89°30'50"	11.4							6	
7		317	1760		89°57'30"	11.4							7	
8		318	2640		89°46'10"	11.4							8	
9		319	3520		89°46'07"	11.4							9	01"
10					270°14'06"	11.4							10	
11													11	
12													12	
13		319	4015		89°36'39"	11.4							13	
14					270°22'59"	11.4							14	
15		320	3135		89°46'30"	11.4							15	50"
16													16	
17													17	

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

HORIZONTAL AND VERTICAL SURVEY NOTES

25

GSI AREA Utukok River STATE/COUNTY AK. BOOK NO. _____ PAGE 304 OF _____
 LINE/LOOP NO. 727 TYPE SURVEY _____ CLIENT Husky oil DATE 12 BY 3 MO 80 YR
 SURVEYOR Perez INSTRUMENT DESC/SERIAL NO. _____ CREW NO. 1182

LINE	 	STATION	VERTICAL						ELEVATION		L/R OR DI	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												1		
2		321	2255			89° 47' 40"	11.4					2		
3		322	1375			89° 48' 10"	11.4					3		
4		323	495			88° 44' 30"	11.4					4		
5		323 + 495	0			90° 00' 00"	5.4					5		
6		324	385			90° 12' 40"	11.4					6		
7		325	1265			91° 16' 40"	11.4					7		
8		326	2145			91° 13' 10"	11.4					8		
9		327	3025			91° 11' 30"	11.4					9		
10		328	3905			90° 55' 30"	11.4					10		
11		329	4785			90° 32' 10"	11.4					11		
12		330	5665			90° 16' 10"	11.4					12		
13		331	6545			90° 08' 30"	11.4					13		
14		332	7425			90° 07' 51"	11.4					14		
15						269° 52' 02"	11.4					15		
16												16		
17												17		

54

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

HORIZONTAL AND VERTICAL SURVEY NOTES

26

GSI AREA Utukok River STATE/COUNTY AK. BOOK NO. _____ PAGE 305 OF _____
 LINE/LOOP NO. 227 TYPE SURVEY _____ CLIENT Husky Oil DATE 12 BY 3 MO 80 YR
 SURVEYOR P. P. 162 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														
2		332	3520		90° 25' 19"	11.4								
3					269° 34' 15"	11.4								
4		333	2640		90° 29' 40"	11.4								
5		334	1760		90° 25' 10"	11.4								
6		335	880		90° 10' 00"	11.4								
7		336	0		90° 00' 00"	5.2							<i>Slightly off level</i>	
8		337	880		89° 23' 38"	11.4								
9		338	1760		89° 33' 00"	11.4								
10		339	2640		89° 50' 44"	11.4								
11					270° 09' 23"	11.4								
12														
13														
14		339	1760		88° 38' 04"	11.4								
15					271° 21' 38"	11.4								
16														
17														

33"

50"

13"

WORKED BY Jabril Perez CHECKED BY 1ST _____ 2ND _____

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

HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA Utukok River STATE/COUNTY A.K. BOOK NO. _____ PAGE 306 OF _____
 LINE/LOOP NO. 727 TYPE SURVEY _____ CLIENT Husky Oil DATE 12 BY 3 MO 80 YR
 SURVEYOR Perez 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														
2		340	880		88°19'20"	11.4								
3		341	0		90°00'00"	5.2								
4		802.62	1000		90°50'07"	5.0								Elev. 273.64
5					269°09'45"	5.0								
6		342	880		90°45'56"	11.4								
7		343	1760		90°48'30"	11.4								
8		344	2640		90°47'10"	11.4								
9		345	3520		90°45'10"	11.4								
10		346	4400		90°43'00"	11.4								
11		347	5280		90°39'40"	11.4								
12		348	6160		90°37'10"	11.4								
13		349	7040		90°33'30"	11.4								
14		350	7920		90°31'59"	11.4								
15					269°27'53"	11.4								
16														
17														

11"

3203"

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

HORIZONTAL AND VERTICAL SURVEY NOTES

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GSI AREA Utukok River STATE/COUNTY AK. BOOK NO. _____ PAGE 307 OF _____
 LINE/LOOP NO. 727 TYPE SURVEY _____ CLIENT Musky Oil DATE 12 BY 3 MO 80 YR
 SURVEYOR Perez 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										
1														
2	A	350	6160		89°45'14"	11.4								
3	A				270°14'27"	11.4								
4		351	5280		89°57'30"	11.4								
5		352	4400		89°57'30"	11.4								
6		353	3520		90°01'30"	11.4								
7		354	2640		90°05'20"	11.4								
8		355	1760		89°57'30"	22.0								
9		356	880		89°38'10"	11.4								
10	π	357	0		90°00'00"	5.2								
11		358	880		90°39'11"	11.4								
12		359	1760		90°24'10"	11.4								
13		360	2640		90°17'20"	11.4								
14		361	3520		90°12'30"	11.4								
15		362	4400		90°16'00"	11.4								
16														
17														

WORKED BY Samuel Perez CHECKED BY 1ST _____ 2ND _____

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

HORIZONTAL AND VERTICAL SURVEY NOTES

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GSI AREA Utukok River STATE/COUNTY AK. BOOK NO. _____ PAGE 308 OF _____
 LINE/LOOP NO. 727 TYPE SURVEY _____ CLIENT Husky Oil DATE 12 DY 3 MO 80 YR
 SURVEYOR Perez 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													1		
2		363	5280			90°14'10"	11.4							2	
3		364	6160			90°10'35"	11.4							3	
4		365	7020			90°26'20"	11.4							4	
5		366	7920			90°03'50"	11.4							5	
6		367	8800			89°59'01"	11.4							6	
7						270°00'58"	11.4							7	
8														8	
9														9	
10		367	1760			89°55'51"	11.4							10	
11			1760			270°03'45"	11.4							11	
12		368	880			89°23'40"	11.4							12	
13		369	0			90°00'00"	5.2							13	
14		370	880			90°06'40"	11.4							14	
15		371	1760			90°18'20"	11.4							15	
16														16	
17														17	

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

HORIZONTAL AND VERTICAL SURVEY NOTES

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GSI AREA Utukok River STATE/COUNTY AK. BOOK NO. _____ PAGE 309 OF _____
 LINE/LOOP NO. 737 TYPE SURVEY _____ CLIENT Husky 0.1 DATE 13 BY 3 MO 80 YR
 SURVEYOR Perez 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													1		
2		372	2640			90°15'30"	11.4							2	
3		373	3520			90°11'40"	11.4							3	
4		374	4400			90°11'04"	11.4							4	
5						269°49'01"	11.4							5	
6														6	
7														7	
8		374	7020			89°57'17"	11.4							8	
9						270°02'45"	11.4							9	
10		375	6160			89°59'46"	11.4							10	
11		376	5280			90°05'30"	11.4							11	
12		377	4400			90°13'30"	11.4							12	
13		378	3520			90°18'10"	11.4							13	
14		379	2640			90°20'10"	11.4							14	
15		380	1760			90°21'30"	11.4							15	
16														16	
17														17	

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

HORIZONTAL AND VERTICAL SURVEY NOTES

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GSI AREA Hukok River STATE/COUNTY AK. BOOK NO. _____ PAGE 310 OF _____
 LINE/LOOP NO. 727 TYPE SURVEY _____ CLIENT Husky Oil DATE 13 BY 3 MO 20 YR
 SURVEYOR Perez INSTRUMENT DESC/SERIAL NO. _____ CREW NO. 1182

LINE	△ ┆ SS ⊙	STATION	VERTICAL						HORIZONTAL		REMARKS		
			DISTANCE	<input type="checkbox"/> FEET	VERTICAL ANGLE OBS.	ROD RDG OR HI	ELEV DIFF	FINAL ELEVATION DIFF	ELEVATION			RIGHT TURNED HORIZONTAL ANGLE	
				<input type="checkbox"/> METERS					INST	ROD			
		SLOPE	HORIZ					L/R OR DIR	LINE				
1											1		
2		<u>381</u>	<u>880</u>		<u>89°55'40"</u>	<u>11.4</u>						2	
3	<u>π</u>	<u>382</u>	<u>0</u>		<u>90°00'00"</u>	<u>5.2</u>						3	<u>End of Line 727</u>
4		<u>TS 383</u>	<u>880</u>		<u>89°35'30"</u>	<u>11.4</u>						4	
5		<u>TS 384</u>	<u>1760</u>		<u>89°46'00"</u>	<u>11.4</u>						5	
6	<u>⊙</u>	<u>80263</u>	<u>7244.77</u>		<u>89°55'03"</u>	<u>11.4</u>		<u>177.24</u>				6	<u>Elev. 177.24</u>
7	<u>SS</u>				<u>270°05'16"</u>	<u>11.4</u>						7	
8	<u>⊙</u>	<u>TS 384+205</u>	<u>2365</u>		<u>89°56'27"</u>	<u>11.4</u>						8	
9	<u>⊙</u>				<u>270°03'27"</u>	<u>11.4</u>						9	
10												10	
11												11	
12	<u>A</u>	<u>TS 384+605</u>	<u>2035</u>		<u>88°34'45"</u>	<u>11.4</u>						12	
13	<u>A</u>				<u>271°24'53"</u>	<u>11.4</u>						13	
14		<u>385</u>	<u>1760</u>		<u>88°36'00"</u>	<u>11.4</u>						14	
15		<u>386</u>	<u>880</u>		<u>89°36'10"</u>	<u>11.4</u>						15	
16	<u>π</u>	<u>387</u>	<u>0</u>		<u>90°00'00"</u>	<u>5.0</u>						16	
17		<u>388</u>	<u>880</u>		<u>89°37'00"</u>	<u>11.4</u>						17	<u>End of Survey</u>

WORKED BY _____ CHECKED BY 1ST _____ 2ND _____

SYMBOLS △ = BACKSIGHT ┆ = INSTRUMENT SET-UP SS = SIDESHOT ⊙ = FORESIGHT