

GRUM JOINT VENTURE U./G.D.D.H. COORDINATES (C.M.E.)

018300 SHEET #1

CDH. #	START	FINISH	LENGTH(m)	NORTHING	EASTING	ELEV.	AZIMUTH	DIP	REMARKS
U-1	1/12/75	3/12/75	62.5	10,778.57	7,691.73	1152.57	110°13'11"	+03°	72W 6N
U-2	4/12/75	8/12/75	50.3	10,779.73	7,691.54	1152.66	52°20'02"	+03°	" "
U-3	6/12/75	10/12/75	82.3	10,777.12	7,628.66	1155.32	225°03'23"	+35°	72W 3N
U-4	10/12/75	17/12/75	53.3	10,720.19	7,631.53	1155.62	235°37'10"	+15°	" "
U-5	18/12/75	16/12/75	99.1	10,720.45	7,632.27	1151.62	Vert. 0°	-90°	" "
U-6	17/12/75	19/12/75	36.6	10,719.91	7,632.35	1155.60	15°00'00"	+80°	" "
U-7	19/12/75	23/12/75	73.2	10,746.70	7,652.80	1151.80	11°	-60°	72W 4N
U-8	24/12/75	26/12/75	50.3	10,746.71	7,652.78	1155.87	218°26'35"	+80°	" "
U-9	28/12/75	30/12/75	64.0	10,765.60	7,671.80	1152.0	11°	-55°	72W 5N
U-10	31/12/75	4/1/76	64.0	10,765.58	7,671.82	1155.915	233°17'07"	+80°	" "
U-11	4/1/76	4/1/76	21.1	10,781.47	7,692.46	1153.72	26°10'20"	-10°	72W 6N
U-12	5/1/76	6/1/76	79.9	10,685.91	7,600.50	1152.91	13°17'59"	-10°	72W 2N
U-13	7/1/76	10/1/76	182.9	10,685.48	7,600.08	1152.91	13°17'59"	-83°	Dip Tests " "
U-14	11/1/76	12/1/76	51.8	10,684.80	7,602.59	1157.71	233°06'21"	+59°	" "
U-15	12/1/76	16/1/76	185.0	10,702.13	7,531.34	1166.19	11°	-60°	Dip Tests 74W 35N
U-16	16/1/76	21/1/76	106.7	10,727.09	7,639.76	1151.80	15°58'50"	-36°	72W 31N
U-17	21/1/76	22/1/76	125.0	10,727.20	7,639.60	1151.80	13°18'00"	-60°	" "
U-18	22/1/76	22/1/76	88.4	10,686.00	7,600.50	1153.0	11°	-16°	72W 21N
U-19	24/1/76	25/1/76	59.4	10,684.01	7,598.675	1155.27	223°18'00"	+31°	" "
U-20	25/1/76	26/1/76	74.7	10,685.03	7,599.64	1152.92	223°18'00"	-80°	" "
U-21	27/1/76	2/2/76	76.2	10,716.85	7,628.66	1155.64	227°00'49"	+55°	72W 31N
U-22	29/1/76	30/1/76	99.1	10,720.18	7,631.993	1151.708	227°00'00"	-17°	" "
U-23	31/1/76	31/1/76	70.1	10,720.80	7,632.885	1151.704	17°00'00"	-68°	" "
U-24	2/2/76	3/2/76	59.4	10,726.67	7,640.42	1155.16	17°24'03"	+31 1/2°	" "
U-25	5/2/76	7/2/76	112.3	"	"	"	"	+34°	Re-peat of U-24 " "
U-26	8/2/76	9/2/76	76.2	10,717.49	7,689.09	1156.85	235°18'18"	+69°	72W 6N
U-27	13/2/76	15/2/76	106.1	10,781.03	7,693.72	1157.59	18°25'09"	+62°	72W 6N
U-28	16/2/76	17/2/76	64.0	10,708.75	7,538.75	1166.52	18°12'12"	-39 1/2°	74W BL4
U-29	17/2/76	18/2/76	68.6	10,709.13	7,538.50	1167.26	16°11'03"	-13°57'	" "
U-30	18/2/76	19/2/76	36.6	10,709.04	7,538.30	1169.60	51°50'31"	+13'22"	74W BL4
U-31	19/2/76	20/2/76	61.0	10,702.96	7,535.11	1166.86	92°35'19"	-15°15'	Dip Tests 74W BL4
U-32	20/2/76	23/2/76	121.9	10,703.10	7,552.66	1166.37	222°33'27"	-72°51'	Dip Tests 74W BL4
U-33	23/2/76	24/2/76	21.9	10,700.57	7,530.24	1169.41	222°00'00"	+15°	74W BL4
U-34	24/2/76	28/2/76	126.5	10,747.506	7,589.079	1144.611	153°32'16"	-84°18'	74W 3N
U-35	1/3/76	4/3/76	127.8	10,768.045	7,589.407	1144.639	57°10'41"	-63°23'	Dip Tests 74W 3N
U-36	5/3/76	5/3/76	19.8	10,631.975	7,680.82	1157.49	156°36'21"	+1°11'	74W 3N

All Locations APPROX. Not NECESSARILY SURVEYED.

## GRUM JOINT VENTURE U.G.D.D.H. COORDINATES (C.M.E.)

SHEET # 2

DDH. #	START	FINISH	LENGTH	NORTHING	EASTING	ELEV.	AZIMUTH	DIP	REMARKS
U-37	5/3/76	8/3/76	53.3	10,633.282	7,681.653	1167.742	93°23'23"	+19°12'	68+70W 2N
U-38	8/3/76	9/3/76	85.3	10,632.549	7,681.265	1167.829	103°18'31"	+19°19'	68+70W 2N
U-39	9/3/76	10/3/76	110.3	10,767.245	7,588.402	1144.623	230°28'17"	-13°15'	Dip Tests 74W 3N
U-40	10/3/76	12/3/76	108.8	10,767.051	7,588.308	1144.597	225°20'45"	-33°58'	Dip Tests 74W 3N
U-41	12/3/76	14/3/76	91.5	10,769.061	7,590.681	1144.633	11°25'21"	-16°19'	Dip Tests 74W 3N
U-42	15/3/76	16/3/76	53.3	10,767.689	7,590.105	1148.632	45°29'23"	+18°18'	74W 3N
U-43	16/3/76	17/3/76	45.7	10,767.235	7,589.511	1148.756	206°33'54"	+18°15'	74W 3N
U-44	17/3/76	17/3/76	45.7	10,767.196	7,587.310	1148.788	235°57'00"	+10°46'	74W 3N
U-45	18/3/76	19/3/76	62.5	10,831 *	7647 *	1143.25 *	44° *	-80	COLLAR LOST. 74W 6N
U-46	19/3/76	19/3/76	83.8	10,831 *	7647 *	1143.25 *	44° *	-80	50 " " 74W 6N
U-47	21/3/76	22/3/76	80.8	10,831 *	7647 *	1143.25 *	224° *	-48	" " 74W 6N
U-48	22/3/76	23/3/76	120.7	10,826.650	7,645.370	1143.336	214°35'53"	-55°30'	Dip Tests 74W 6N
U-49	24/3/76	25/3/76	82.3	10,825.927	7,643.088	1144.542	222°59'01"	+0°50'	74W 6N
U-50	25/3/76	26/3/76	91.4	10,825.601	7,643.895	1144.519	189°02'53"	+00°37'	74W 6N
U-51	26/3/76	27/3/76	70.1	10,826 *	7,643 *	1146 *	224 *	+48	COLLAR LOST. 74W 6N
U-52	27/3/76	28/3/76	57.9	10,826.400	7,643.186	1147.300	229°23'55"	+15°13'	74W 6N
U-53	28/3/76	28/3/76	60.9	10,827.039	7,643.677	1147.510	225°01'23"	+23°	74W 6N
U-54	29/3/76	2/4/76	150.9	10,829.238	7,645.418	1148.115	33°12'15"	+60°	Dip Tests 74W 6N
U-55	2/4/76	3/4/76	36.4	10,826.027	7,643.137	1145.060	233°10'23"	+27°	74W 6N
U-56	3/4/76	3/4/76	61.0	10,825.996	7,643.189	1146.126	223°41'55"	+28°	74W 6N
U-57	3/4/76	4/4/76	53.3	10,825.897	7,643.083	1143.826	220°16'53"	-28°	74W 6N
U-58	5/4/76	6/4/76	106.6	10,797.873	7,534.521	1136.292	223°41'31"	+1°40'	Dip Tests 76W 3N
U-59	7/4/76	9/4/76	127.2	10,798.160	7,534.893	1135.444	227°06'12"	-15°22'	Dip Tests 76W 3N
U-60	10/4/76	11/4/76	122.0	10,799.368	7,535.886	1134.969	0°-00'	-90°	COLLAR ONLY 76W 3N
U-61	11/4/76	13/4/76	120.3	10,799.082	7,535.677	1135.001	224° *	+70 80	COLLAR ONLY Dip Tests 76W 3N
U-62	14/4/76	15/4/76	109.7	10,798.093	7,534.797	1135.596	222°17'48"	-21°	Dip Tests 76W 3N
U-63	15/4/76	17/4/76	106.6	10,798.012	7,534.767	1137.448	222°14'29"	+32°30'	76W 3N
U-64	17/4/76	18/4/76	57.9	10,799.507	7,537.073	1138.802	221°23'19"	+63°30'	76W 3N
U-65	18/4/76	19/4/76	59.4	10,799.568	7,535.976	1139.029	339°16'28"	+88°09'	76W 3N
U-66	19/4/76	20/4/76	99.0	10,797.703	7,536.365	1136.900	176°26'01"	+23°	76W 3N
U-67	20/4/76	26/4/76	76.2	10,842.752	7,493.677	1126.585	225°28'11"	+01°	78W 3N
U-68	26/4/76	27/4/76	53.3	10,841.812	7,493.570	1127.786	223°26'44"	+33°	78W 3N
U-69	27/4/76	27/4/76	38.1	10,843.024	7,494.453	1130.213	226°53'41"	+60°	78W 3N
U-70	28/4/76	28/4/76	39.6	10,844.052	7,495.379	1130.004	14°08'00"	+25°15'	78W 3N
U-71	28/4/76	29/4/76	45.7	10,844.371	7,495.545	1129.904	41°59'23"	+65°	78W 3N
U-72	29/4/76	2/5/76		10,842.738	7,494.992	1124.623	224°08'42"	-56°15'	Dip Tests 78W 3N

## GRUM JOINT VENTURE U./G.D.D.H. COORDINATES (C.M.E.)

SHEET # 3

DDH. #	START	FINISH	LENGTH	NORTHING	EASTING	ELEV.	AZIMUTH	DIP	REMARKS
U-73	02/05/76	03/05/76	121.9	10,841.072	7,498.756	1126.003	196°17'12"	+1°16'	78W 3N
U-74	04/05/76	06/05/76	107.9	10,602.785	7,732.580	1174.983	147°35'00"	+8°30'	Dip Tests
U-75	02/05/76	09/05/76	170.7	10,843.472	7,495.470	1174.589	39°10'18"	-75°25'	Dip Tests 78W 2+22
U-76	07/05/76	08/05/76	65.5	10,602.158	7,731.638	1175.064	169°08'00"	+5°10'	
U-77	09/05/76	15/05/76	167.6	10,841.451	7,496.313	1124.893	<del>321°12'58"</del>	+55°37'	044° - AZIMUTH Dip Tests 78W 3N
U-78	08/5/76	09/5/76	106.7	<del>10,540.75</del> 10,540.75	<del>(7,719.18)</del> 7,719.18	1175.072	153°37'00"	+8°30'	wrong coordinates Dip Tests. 67W 2N
U-79	15/5/76	16/5/76	97.5	10,841.867	7,494.408	1125.110	218°23'55"	-29°31'	Dip Tests 78W 3N
U-80	10/5/76	11/5/76	76.2	10,776.534	7,687.983	1154.198	154°50'32"	+10°05'	72W 6N 2N
U-81	18/05/76	18/05/76	38.1	10,835.044	7,570.330	1137.789	0°00'	-90°	76W 76X
U-82	12/05/76	12/05/76	45.7	10,776.094	7,686.964	1154.668	186°54'00"	+9°38'	72W 5N+5M
U-83	18/05/76	20/05/76	38.1	10,835.153	7,570.732	1122.061	0°00'	+90°	76W 76X
U-84	13/05/76	14/05/76	76.2	10,780.559	7,687.547	1153.227	19°27'00"	-55°05'	72W 5N+1M
U-85	20/05/76	21/05/76	41.1	10,834.141	7,570.116	1122.226	227°02'14"	+65°1'	76W 76X
U-86	15/5/76	16/5/76	94.5	10,782.364	7,693.250	1153.994	41°12'47"	-31°12"	Dip Tests 72W 5N+
U-87	23/5/76	24/5/76	61.0	10,833.250	7,568.312	1137.839	223°41'45"	-53°24'	76W 76W
U-88	17/5/76	17/5/76	65.5	10,750.451	7,733.161	1156.053	0°00'	-90°	70W/6N (COLLAR ONLY) Hole STOPPED DUE TO WATER + SAND.
U-89	24/5/76	25/5/76	38.1	10,820.700	7,559.000	1121.317	201°23'47"	+34°18'	76W/3N + 22.5m N.E.
U-90	18/5/76	21/5/76	119.7 <sup>90°</sup> 96.0	10,752.877	7,733.463	1155.994	38°55'39"	-61°30'	70W/6N
U-91	25/5/76	27/5/76	97.5	10,926.783	7,571.588	1124.819	250°24'39"	-8°26'	76W/6N
U-92	22/05/76	23/5/76	73.2	10,749.482	7,730.366	1157.059	<del>321°12'58"</del> 321°12'58"	-0°37'	70W/6N. 2.2° - 4.4' - 5.2" - AZIMUTH
U-93	27/5/76	30/5/76	76.2	10,925.528	7,572.886	1126.409	225°14'23"	+30°32'	78W/7N
U-94	23/5/76	24/5/76	76.2	10,968.127	7,378.316	1099.785	347°28'57"	+5°	Test Hole For 3N/4N DECLINE
U-95	31/5/76	3/6/76	121.9	10,926.495	7,572.533	1124.080	224°57'54"	-19°34'	78W/7N Dip Tests
U-96	24/5/76	26/5/76	121.9	10,749.520	7,730.762	1158.026	223°17'16"	+19°27'	70W/6N Dip Tests
U-97	3/6/76	3/6/76	62.5	10,926.180	7,572.655	1124.215	219°02'20"	-31°	78W/7N
U-98	26/5/76	29/5/76	83.8	10,749.231	7,731.637	1156.092	215°59'12"	-16°12'	70W/6N
U-99	6/06/76	15/06/76	182.9	10,935.223	7,583.219	1123.951	217°15'13"	-60°17'	78W/7N Dip Tests
U-100	29/5/76	3/06/76	121.9	10,748.849	7,731.197	1159.022	222°29'25"	+35°07'	70W/6N Dip Tests
U-101	15/06/76	21/06/76	175.3 *	10,936.5 *	7,583.5 *	1123.9 *	44° *	-85°	Collar Lost 78W/7N
U-102	3/06/76	4/06/76	47.2	10,749.741	7,731.795	1160.637	222°10'24"	+15°27'	70W/6N
U-103	21/06/76	24/06/76	129.5	10,936.340	7,583.722	1123.929	12°19'48"	-16°12'	78W/3N Dip Tests
U-104	4/06/76	4/06/76	31.4	10,751.375	7,733.202	1160.596	13°18'55"	+63°31'	70W/6N
U-105	27/06/76	29/06/76	38.1	10,936.42 *	7,583.5 *	1125 *	44° *	-0° *	Collar Lost 78W 7N
U-106	5/06/76	9/06/76	137.2	10,752.194	7,734.480	1157.253	46° *	0° *	Collar ONLY 70W 6N Dip Tests
U-107	30/06/76	25/07/76	70.1	10,936.5 *	7,583.5 *	1127.6 *	0°00'	+90°	78W 7N
U-108	10/06/76	12/06/76	72.5	10,751.562	7,734.922	1156.252	14°31'32"	-30°57'	70W 6N

GRUM JOINT VENTURE U./G.D.D.H. COORDINATES (C.M.E.)

U.D.H. #	START	FINISH	LENGTH	NORTHING	EASTING	ELEV.	AZIMUTH	DIP	REMARKS
U-109	6/07/76	18/07/76	116.7	10,936.752	7,585.229	1127.587	38°13'51"	+53°10'	Dip Tests 78W 7N
U-110	12/06/76	13/06/76	90.8	10,894.581	7,627.339	1132.983	0°00'	-90°*	COLLAR ONLY 76W 7N
U-111	6/07/76	11/06/76	122.8	10,749.23	7,731.63	1156.10	0°	-90°	CANNOT FIND COLLAR Dip Tests 70W 6N
U-112	18/06/76	18/06/76	15.7	10,893.518	7,626.341	1132.960	220°17'28"	-59°25'	76W 7N
U-113	12/07/76	17/07/76	102.7	10,752.87	7,733.46	1155.90	044°	-58°	CANNOT FIND COLLAR 70W 6N
U-114	18/06/76	15/06/76	15.7	10,891.951	7,625.063	1131.221	222°01'30"	0°*	76W 7N
U-115	18/07/76	19/07/76	74.0	10,789.316	7,732.815	1155.983	226°02'30"	-65°20'	70W 6N
U-116	15/06/76	16/06/76	68.6	10,891.825	7,625.101	1136.460	225°03'33"	+11°57'	76W 7N
U-117	16/07/76	16/07/76	61.0	<del>10,832.5</del> 10,832.5	<del>7,651.5</del> 7,651.5	1125.217	13°16'18"	-0°17'	10832.5 7651.5 74W 7N
U-118	17/06/76	19/06/76	76.2	10,892.665	7,626.485	1138.160	228°21'17"	+71°31'	76W 7N
U-119	19/07/76	18/07/76	103.6	<del>10,658.15</del> 10,658.15 *	<del>7,653.75</del> 7,653.75 *	1160.6 *	0°00'	-90°*	COLLAR LOST (DRIFT WRONG SURVEY) 70W 2N
U-120	19/06/76	20/06/76	61.0	10,895.715	7,628.347	1131.219	10°07'18"	0	76W 7N
U-121	20/07/76	21/07/76	65.5	10,653.20 *	7,649.75 *	1160.6 *	224° *	-60	COLLAR LOST (DRIFT WRONG SURVEY) 70W 2N
U-122	21/06/76	22/06/76	91.1	10,895.7 *	7,628.3 *	1133.0	044° *	-55	CANNOT FIND COLLAR 76W 7N
U-123	21/07/76	24/07/76	118.9	10,657.808	7,658.759	1160.611	44° *	-45°*	COLLAR ONLY (DRIFT WRONG SURVEY) 70W 2N
U-124	22/6/76	23/6/76	91.1	10,863.5 *	7,597.7 *	1138.0 *	0°00'	-90°*	COLLAR LOST 76W 76X
U-125	21/07/76	29/07/76	92.3	10,748.611	7,731.638	1156.649	227°38'13"	-30°06'	70W 6N
U-126	21/06/76	2/07/76	111.8	10,862.5 *	7,597.0 *	1138.0 *	224° *	-60°*	COLLAR LOST Dip Tests 76W 76X
U-127	24/07/76	25/07/76	45.7 <sup>106.8</sup>	10,658.25 <sup>118</sup>	7,657.501	1161.821	13°51'58"	+1°29'	(DRIFT WRONG SURVEY) 70W 2N
U-128	2/07/76	3/07/76	83.8	10,863.3 *	7,598.0 *	1138.0 *	44° *	-60°*	COLLAR LOST 76W 5+20N
U-129	21/07/76	28/07/76	112.3	10,850.0 *	7,581.8 *	1137.6 *	224° *	-55°*	" " Dip Tests 76W 5N
U-130	3/07/76	1/07/76	15.7	10,862.880	7,597.281	1142.716	250°17'16"	+81°10'	76W 76X
U-131	26/07/76	28/07/76	<del>126.5</del> 45.7	10,655.10 <sup>108</sup>	7,649.008	1161.752	223°21'15"	-0°36'	(DRIFT WRONG SURVEY) 70W 2N
U-132	6/07/76	11/07/76	132.5	10,895.4 *	7,628.7 *	1133.0	044°	+63	CANNOT FIND COLLAR 76W 7N
U-133	26/07/76	28/07/76	126.5	10,657.826 <sup>15</sup>	7,652.507 <sup>752</sup>	1160.565	44° *	-60°*	COLLAR ONLY (DRIFT WRONG SURVEY) 70W 2N
U-134	13/07/76	17/07/76	99.1	10,808.130	7,511.102	1131.118	12°13'33"	-28°18'	Dip Tests 76W 3N
U-135	27/07/76	4/08/76	190.5	10,978.338	7,510.513	1110.875	44° *	-85°*	COLLAR ONLY Dip Tests 80W 7N
U-136	29/07/76	30/07/76	76.2	10,657.161	7,651.876	1163.192	226°12'00"	+48°*	COLLAR ONLY Azim - 226° - 12'-00" 70W 2N
U-137	30/07/76	1/08/76	61.0	10,658.807	7,650.258	1161.001	44°13'15"	+68°	→ Azim - 44° - 13' - 15" 70W 2N
U-138	29/07/76	6/08/76	122.2	10,808.025	7,511.558	1133.906	17°15'16"	-18°20'	Dip Tests 76W 3N
U-139	1/08/76	2/08/76	76.2	10,657.10 *	7,657.00 *	1164.00 *	224° *	+75°*	COLLAR LOST (DRIFT WRONG SURVEY) 70W 2N
U-140	5/08/76	16/08/76	123.4	10,978.181	7,510.686	1110.901	50°09'28"	-58°25'	80W 7N
U-141	9/08/76	11/08/76	152.4 <sup>152.4</sup>	10,587.30 <sup>10571.35</sup>	7,744.907	1178.561	221°53'20"	0°19'	Dip Tests (DRIFT WRONG SURVEY) 66W 2N
U-142	9/08/76	11/08/76	152.4	10,976.117	7,538.102	1111.220	223°02'11"	-29°35'	Dip Tests (DRIFT WRONG SURVEY) 80W 7N
U-143	9/08/76	12/08/76	132.6 <sup>10579.28</sup>	10,585.16 <sup>165</sup>	7,746.001	1177.581	44° *	-25°*	COLLAR ONLY (- do) Dip Tests 66W 2N
U-144	12/08/76	13/08/76	73.2	10,978.671	7,511.299	1111.519	12°11'31"	+51°19'	WRONG ELEVATION 80W 7N

## GRUM JOINT VENTURE U.G.D.D.H. COORDINATES (C.M.E.)

SHEET # 5

DDH. #	START	FINISH	LENGTH	NORTHING	EASTING	ELEV.	AZIMUTH	DIP	REMARKS
U-145	13/08/76	15/08/76	121.9	10580.50	7746.50	1178.50	44°00'	-65°	COLLAR BURIED Dip Tests 66W 2N
U-146	13/08/76	15/08/76	73.7	10,977.386	7,539.851	1115.607	225°26'31"	+88°28'	80W 7N
U-147	15/08/76	18/08/76	76.2	<sup>10576.69</sup> <del>10,576.60</del>	<sup>7743.25</sup> <del>7,743.258</del>	1180.899	227°02'28"	+46°09'	(DRIFT WRONG SURVEY) 66W 2N
U-148	16/08/76	17/08/76	68.6	10,848.985	7,500.088	1124.871	27°21'05"	-36°28'	78W 3N
U-149	18/08/76	20/08/76	182.9	10,939.533	7,502.629	1116.928	0°00'	-90°	Dip Tests 80XC 5N+
U-150	18/08/76	21/08/76	152.4	10,880.298	7,445.206	1112.592	218°15'16"	-73°29'	Dip Tests 80W Remuc
U-151	21/08/76	22/08/76	76.2	10,879.287	7,443.319	1115.771	224°	+43°	COLLAR ONLY 80W Remuc
U-152	23/08/76	24/08/76	61.0	10,939.202	7,502.377	1121.601	181°20'25"	+87°22'	80XC 5N+
U-153	21/08/76	22/08/76	61.0	10,879.100	7,443.537	1113.226	223°22'36"	-17°13'	80W Remuc
U-154	23/08/76	24/08/76	61.0	10,897.521	7,465.137	1119.956	200°10'14"	+82°30'	80XC 3N+
U-155	24/08/76	25/08/76	61.0	10578.00	7744.50	1177.40	224°	-56°	COLLAR BURIED 66W 2N
U-156	25/08/76	26/08/76	76.2	10,897.563	7,465.076	1116.254	0°	-90°	80XC 3N+
U-157	25/08/76	27/08/76	132.6	10579.00	7745.50	1177.40	0°00'	-90	COLLAR BURIED Dip Tests 66W 2N
U-158	26/08/76	27/08/76	74.3	10,930.919	7,409.512	1108.329	224°	+45°	COLLAR ONLY °° HOLE CAVED 82W 3N
U-159	27/08/76	28/08/76	76.2	10,579.204	7,745.604	1181.581	30°08'48"	+66°53'	(DRIFT WRONG SURVEY) 66W 2N
U-160	27/08/76	28/08/76	73.2	10,930.319	7,409.153	1105.880	224°	-15°	COLLAR ONLY °° HOLE CAVED 82W 3N
U-161	28/08/76	29/08/76	59.4	<sup>10577.30</sup> <del>10,581.626</del>	<sup>7743.00</sup> <del>7,743.00</del>	1177.081	222°51'37"	-31°52'	(DRIFT WRONG SURVEY) 66W 2N
U-162	30/08/76	1/09/76	153.9	10,930.5	7,409.5	1105.0	224°	-65°	COLLAR BURIED Dip Tests 82W 3N
U-163	31/08/76	1/09/76	112.1	10,528.495	7,781.061	1185.186	221°01'16"	-1°01'	Dip Tests 64W 2N
U-164	2/09/76	2/09/76	50.0	10,931.551	7,410.180	1109.773	224°	+72°	COLLAR ONLY °° HOLE CAVED 82W 3N
U-165	3/09/76	1/09/76	53.3	10,528.777	7,781.079	1184.896	226°06'32"	-38°36'	64W 2N
U-166	3/09/76	5/09/76	182.9	11020.25	7495.50	1105.50	0°00'	-90	CANNOT FIND COLLAR. Dip Tests 82W 7N
U-167	1/09/76	2/09/76	61.8	10,528.781	7,781.263	1187.573	225°31'23"	+42°56'	64W 2N
U-168	6/09/76	12/09/76	166.7	11,018.004	7,495.327	1105.191	224°	-60°	COLLAR ONLY °° DIRT ATTACHED 82W 7N
U-169	2/09/76	2/09/76	45.7	10,481.353	7,821.115	1193.067	23°58'53"	-0°11'	62W 2N
U-170	1/09/76	10/09/76	<del>53.3</del> 96.3	11,021.815	7,412.151	1099.820	7°35'11"	-88°59'	84XC 5N+
U-171	2/09/76	3/09/76	30.5	10,480.991	7,818.531	1192.871	223°00'10"	+0°20'	62W 2N
U-172	12/09/76	14/09/76	121.9	11,017.117	7,494.882	1105.822	224°	-24°	COLLAR ONLY °° HOLE CAVED Dip Tests 82W 7N
U-173	3/09/76	4/09/76	57.9	10481.50	7819.50	1192.80	224°	-53°	CANNOT FIND COLLAR 62W 7N
U-174	14/09/76	15/09/76	28.0	11020.25	7495.50	1105.50	0°	+90°	CANNOT FIND COLLAR 82W 7N
U-175	4/09/76	4/09/76	53.3	10,481.015	7,821.377	1192.316	22°27'52"	-35°11'	62W 2N
U-176	16/09/76	21/09/76	170.7	11,052.879	7,445.669	1100.718	224°00'	-70°	COLLAR ONLY Dip Tests 84W 7N
U-177	5/09/76	5/09/76	65.5	10,483.952	7,821.132	1195.115	57°11'23"	+42°22'	62W 2N
U-178	20/09/76	22/09/76	70.1	11,053.118	7,446.117	1101.896	26°15'08"	+71°01'	84W 7N
U-179			51.8	10,482.083	7,819.075	1195.709	224°55'19"	+59°18'	62W 2N
U-180	23/09/76	23/09/76	30.5	11,021.719	7,412.355	1101.036	332°11'29"	+87°21'	84W 5N+

## GRUM JOINT VENTURE U./G.D.D.H. COORDINATES (C.M.E.)

SHEET # 6

DDH. #	START	FINISH	LENGTH	NORTHING	EASTING	ELEV.	AZIMUTH	DIP	REMARKS
U-181	6/09/76	7/09/76	68.6	10,622.808	7,703.950	1172.012	224°	+3°	COLLAR ONLY 68W 2N
U-182	24/09/76	27/09/76	153.6	10,981.455*	7,380.441*	1098.841*	0° 00'	-90°	COLLAR ONLY Dip Tests 84W 3N+13
U-183	7/09/76	8/09/76	76.2	10,622.856	7,703.857	1171.191	229° 38' 53"	-29° 56'	68W 2N
U-184			167.6	10,978.603*	7,377.982*	1098.829*	224°	-55°	COLLAR ONLY Dip Tests 84W 3N+1
U-185	8/09/76	9/09/76	91.4	10,600.812	7,722.118	1175.361	222° 17' 21"	+1° 36'	67W 2N
U-186			61.0	10,980.569	7,379.717	1103.110	228° 15' 39"	+76° 27'	84W 3N
U-187	9/09/76	10/09/76	91.4	10,601.239	7,723.862	1174.781	222° 29' 25"	-35° 35'	67W 2N
U-188			83.8	10,933.918	7,413.987	1106.243	43° 06' 09"	-0° 23'	82W 3N
U-189	10/09/76	12/09/76	123.4	10,601.208*	7,727.801*	1174.787	57° 28' 31"	-29° 36'	(DRIFT WRONG SURVEY) 67W 2N
U-190			106.7	110,932.854*	7,411.766*	1105.050*	044°	-70°	Dip Tests 82W 3N
U-191	12/09/76	13/09/76	61.0	10,602.577	7,725.646	1176.890	256° 25' 46"	188° 31'	(COLLAR COORDINATE CORRECT) 67W 2N
U-192			121.9	10,786.017	7,565.862*	1140.178	52° 52' 22"	-68° 33'	Dip Tests 75W 3N
U-193	14/09/76	14/09/76	76.2	10,633.588	7,671.352	1166.245	226° 14' 15"	+1° 41'	69W 2N
U-194			128.0	10,785.410	7,565.128	132° 32' 45"	111.175	-85° 27'	Dip Tests 75W 3N
U-195	14/09/76	15/09/76	91.3	10,636.800	7,674.844	1166.359	48° 57' 36"	+1° 41'	69W 2N
U-196			129.5	10,784.534	7,564.215	1140.180	216° 21' 51"	-63° 59'	Dip Tests 75W 3N
U-197	16/09/76	16/09/76	35.1	10,634.367	7,672.103	1168.856	233° 21' 06"	146° 17'	69W 2N
U-198			153.9	10,709.243*	7,469.539*	1172.840*	032° 00'	-57°	Dip Tests 58 N <sup>2</sup> 1
U-199	17/09/76	19/09/76	132.6	10,677.070	7,629.421	1156.974	228° 18' 33"	+0° 45'	71W 2N
U-200	19/09/76	20/09/76	45.7	10,673.002	7,640.151	1158.248	44° 12' 35"	+0° 43'	71W 2N
U-201	21/09/76	21/09/76	54.9	10,718.842	7,634.555	1152.835	163° 41' 48"	-0° 30'	72W 4N
U-202	21/09/76	22/09/76	45.7	10,718.885	7,634.669	1152.847	122° 26' 58"	-0° 23'	72W 4N
U-203	22/09/76	22/09/76	73.2	10,725.968	7,640.335	1152.766	81° 30' 57"	-0° 48"	72W 4N
U-204	24/09/76	25/09/76	36.6	10,767.167*	7,715.578*	1154.795*	0°	-90°	71W 6N
U-205	24/09/76	25/09/76	106.7	10,710.135	7,716.559	1155.512	41° 21' 29"	+1° 17'	Dip Tests 71W 6N
U-206	26/09/76	27/09/76	106.7	10,766.335	7,715.928	1159.649	161° 59' 45"	+87° 26'	71W 6N
U-207			45.7	10,811.144	7,673.824	1150.448	49° 01' 42"	0° 00'	73W 6N
U-208			140.2	10,810.296	7,673.379	1149.348	62° 04' 59"	-76° 40'	Dip Tests 73W 6N
U-209			97.5	10,810.126	7,672.490	1149.206	156° 02' 15"	-88° 59'	Dip Tests 73W 6N
U-210			120.4	10,809.000	7,671.168	1149.147	220° 53' 59"	-66° 59'	Dip Tests 73W 6N
U-211			114.3	10,742.776*	7,608.095*	1149.551*	222° 00'	-64°	Dip Tests 73W 6N
U-212			70.2	10,743.752	7,608.683	1149.524	58° 03' 19"	-85° 50'	73W 6N
U-213			121.9	10,744.655	7,609.873	1149.495	46° 00' 42"	-64° 36'	Dip Tests 73W 6N
U-214			30.5	10,860.156	7,637.085	1139.159	50° 42' 24"	-1° 39'	75W 6N
U-215			138.7	10,859.157	7,635.768	1137.908	61° 18' 38"	-65° 11'	Dip Tests 75W 6N
U-216			138.7	10,858.261	7,633.339	1137.978	225° 25' 17"	-81° 23'	Dip Tests 75W 6N



SUMMARY OF '167 DIP & BEARING TEST

N.B. DISTANCES INDICATED ARE MIDPOINT TO MIDPOINT

HOLE NO.	TEST Pt. (m)	AZIMUTH	DIP	Hor. Distance (m)	Ver. Distance (m)	Length of Hole (m)	Coordinates
U-13	Collar 0.0	43°-47'-59"	-83°	9.29 m	75.63 m		10 655.77 7 656.08 el. 1152.91
	152.4	42°-00'	-81°	16.68	105.37	182.9	
U-15	Collar 0.0	44*	-60	22.85	39.58		10 702.13 7 531.37 el. 1166.19
	91.4	42°-20'	-68	34.24	94.75		
	182.9	35°-20'	-74	12.59	43.93		
	<del>(Projection)</del>	<del>65°-20'</del>	<del>-74</del>	<del>0.83</del>	<del>2.88</del>	<del>185.9 m</del>	
U-31	Collar 0.0	92°-35'-49"	-15°-45'				10 702.56 7 535.11 el. 1166.86
	8.2	76°-00'	-16°-30'	(REST of TEST SPUN)		61.0 m	
U-32	Collar 0.0	222°-53'-27"	-72°-51'	4.94	13.62		10 703.10 7 532.26 el. 1166.37
	33.5	217-00	-79	2.40	21.92		
	67.0	224	-82	4.45	31.39		
	97.5	252	-85°-30'	1.19	15.18		
	<del>181.9</del>	<del>252</del>	<del>-85°-30'</del>	<del>1.19</del>	<del>15.18</del>	<del>101.9 m</del>	
U-35	Collar 0.0	57°-10'-41"	-63°-23'	13.66	27.25		10 765.04 7 583.40 el. 1144.63
	82.8	49°-00'	-76	12.38	22.8		
	108.2	60°	-78	13.15	61.87	147.83 m	
U-38	Collar 0.0	230-24-17"	-73°-15'	4.34	14.54		10 767.24 7 583.40 el. 1144.62
	30.48	241-00	-75°	7.70	27.23		
	56.39	240°-00'	-75°	7.70	27.23		
	<del>NO. 3</del> (Projection)	<del>240°-00'</del>	<del>-75°</del>	<del>10.02</del>	<del>37.39</del>	<del>110.3</del>	
U-40	Collar 0.0	225-20-45	-53°-55'	13.41	18.55		10 737.051 7 587.30 el. 1144.59
	45.7	234	-54	23.54	24.17		

How No.	T. Pt.	Altitude	Dip	Hor. Dist.	Vert. Dist.	Length of Hole	Collar Coordinates
U-43	91.4	249 <sup>0</sup>	-59	11.79	19.63		
	<del>108.8</del>	<del>249</del>	<del>-59</del>	<del>8.96</del>	<del>14.91</del>	<del>108.8</del>	
U-41	Collar 0.0	44-25-21	-46°-19'	10.5	10.99		10 769.06 7 590.65 el. 1144.63
	30.4	68-00	-46	21.2	21.9		
	60.1	60-00	-49	19.6	22.5		
	89.9	32	-52	9.0	11.5		
	<del>97.5</del>	<del>32</del>	<del>-52</del>	<del>4.7</del>	<del>6.0</del>	<del>97.5</del>	
U-48	Collar 0.0	214-25-53	-55°-20'	8.69	12.56		10 826.65 7 645.32 el. 1143.33
	36.5	267-48	-60	14.65	33.00		
	76.2	201-00	-62°-30'	20.41	39.21		
	118.8	208	-63-25'	7.82	19.86		
		(Continued)	-62-30'	5.67	7.70	120.71	
U-54	Collar 0.0	33-12-15"	+60	8.25	12.75		10 829.43 7 645.42 el. 1148.11
	30.5	34-00	+62	14.30	25.93		
	61.0	33-00	+64	13.36	27.42		
	91.5	21-00	+68	11.44	28.27		
	122.0	7-00	+72	4.70	14.46	150.9	
U-58	Collar 0.0	223°-41'-31"	+1°-40'	38.1	- 1.11		10 797.87 7 534.52 el. 1136.29
	76.2	230-00	- 2-00	53.31	- 1.86		
	107	227-00	- 2-00	15.23	- 0.53	107	
U-59	Collar 0.0	227-06'-12"	-45°-22'	10.71	- 10.85		10 798.16 7 534.89 el. 1135.44
	30.4	228	-47	20.80	- 22.30		
	61.0	229	-47	20.80	- 22.30		
	91.4	228	-57	16.6	- 25.56		
	121.9	241	-62	7.15	- 13.45		
	<del>157.2</del>	<del>241</del>	<del>-62</del>	<del>2.42</del>	<del>2.86</del>	<del>157.2</del>	

WELL NO.	Test Pt.	AZIMUTH	DIP	HOR. DIST. (m)	VERTICAL DIST. (m)	Length (m)	Collar Coord. etc.
U-61	Collar 0.0	224*	-70	7.82	21.48		10 799.03 7 535.67
	45.72	231	-73	13.37	43.72		el: 1135.0
	91.44	232*	-79	7.11	36.6		
	120.3	232*	-81				
	<del>120.3</del>	<del>232*</del>	<del>-81</del>	<del>2.26</del>	<del>14.24</del>	<del>120.3</del>	
U-62	Collar 0.0	222-17-48	-21	14.23	5.46		10 798.09 7 534.79
	30.48	223	-24	27.85	12.40		el: 1135.59
	60.96	233	-31	35.04	18.05		
	100.58	222	-35	16.23	11.36		
	<del>168.72</del>	<del>233</del>	<del>-35</del>	<del>7.50</del>	<del>5.25</del>	<del>109.73</del>	
U-72	Collar 0.0	224-05-42	56°-15'	12.7	19.00		10 842.73 7 494.99
	45.72	357*	-71	18.3	53.29		* Magnetic interference el: 1124.6
	112.7	13*	-82	8.1	57.48	137.3	
U-74	Collar 0.0	147-35'	+8°-30'	22.55	3.37		10,602.78 7,732.35
	45.7	149	+3	28.05	1.99		el.: 1174.98
	76.2	149	+1	30.60	0.53		
	106.7	149	-1	16.5	0.28	107.9	
U-75	Collar 0.0	39-40-18	-75°-25'	7.67	29.5		10 843.47 7 495.47
	60.96	20-00	-84	5.52	52.05		el: 1124.58
	108.69	202-00	-88	3.2	45.81		
	150.4	232-00	-86	2.87	41.04	175.7	
U-77	Collar 0.0	44-00	+55-31	8.59	12.58		10 844.45 7 496.31
	30.48	43-00	+59-20	15.43	26.29		el: 1124.23
	60.96	38-00	+68-00	12.27	30.36		
	96.01	34-00	+72-00	5.41	16.66		
	137.6	28-00	+84-00	7.45	71.2	137.6	

Hole No.	Test Pt.	AZIMUTH	DIP	Hor. DIST.	VERT. DIST.	Length	
U-75	Collar 0.0	135-49 (Ground)	+8° 50'	22.69	2.79		10 203.29 *
	45.72	136-00	+4	38.01	26.58		7 732.98 *
	76.20	136-00	+2	30.46	1.06		el. 1175.07
	106.68	133-00	0	15.24	0	106.7	* Questionable due to wrong survey of 2NE drift.
U-79	Collar 0.0	218°-23'-55"	-29°-51'	19.83	11.45		10 841.26
	45.7	227-00	-35°	39.40	27.6		7 494.40
	96.0	228-00	-41	19.02	16.5		el. 1125.1
	97.5 (Ground)	228	-41	0.38	0.33	97.5	
U-86	Collar 0.0	41°-12'-47"	-31°-12'	40.41	24.47		10 782.26
	94.4	48-00	-47°	32.2	34.55	94.5	7 693.25
							el. 1153.9
U-95	Collar 0.0	224°-52'-54"	-49°-34'	19.51	23.28		10 926.49
	60.9	227-00	-56	29.79	44.1		7 572.53
	106.68	223-00	-60	19.04	32.97	121.9	el. 1124.08
U-98	Collar 0.0	223°-17'-16"	+19°-27'	39.4	14.3		10 749.22
	83.82	225-00	+17	57.5	17.5		7 730.76
	120.4	228-00	+15	19.1	5.12	121.9	el. 1153.02
U-99	Collar 0.0	217°-15'-13"	-60°-17'	15.08	26.48		10 925.22
	60.96	218-00	-68	19.98	49.45		7 583.25
	106.6	223-00	-73	13.36	43.72		el. 1123.95
	152.4	222-00	-76	9.21	36.96		
	182.8	214-00	-79	2.90	14.92	182.9	
U-100	Collar 0.0	222°-29'-25"	+35°-37'	24.9	17.5		10 748.85
	61	213	+33	50.5	32.8		7 731.49
	120.4	233	+37	24.92	18.71	121.9	el. 1159.02

HOLE No	TEST Pt.	AZIMUTH	IP	HOR DIST	VERT DIST	LENGTH	Coordinates	
U-103	Collar 00	42°-19'-48"	-46°-42'	20.38	21.6		10 936.34 7 583.72 el: 1123.92	
	59.4	56°-00	-59°	25.5	42.5			
	99.1	60°-00	-62°	16.5	31.0			
	129.5	67°-00	-63°	6.9	13.5	129.5		
U-106	Collar 00	46°-00	0	55.6	0		10 752.2 7 734.48 el: 1157.25	
	111.3	46°-00	-1°	81.48	1.4	137.2		
U-109	Collar 00	38°-43'-51"	+53°-40'	10.36	14.1		10 936.75 7 585.22 el: 1127.58	
	35.1	34-00	+58	17.38	27.81			
	65.5	31-00	+62	14.19	26.93			
	96.0	31-00	+65	15.17	32.53	116.7		
U-111	Collar 00	0°-00'	-90	-	23		No collar survey	
	46	202	-89	0.8	46			
	91	122	-86	2.7	38			
	123	122	-83	1.9	15.4	123		
U-126	Collar 00	224*	-60*	28.15	48.75		10 862.5 # 7 597.0 # el: 1138.0 # collar loc. Figure approx. fr. log cut	
	112.7	227	-68	27.1	67.11			
	144.8	227	-68	5.9	14.83	144.8		
U-129	- see last sheet.							10 659.04 7 653.56 el: 1160.56
U-133	Collar 00	044*	-60*	25.9	44.9		* survey collar only	
	103.6	054	-65	31.6	67.7	126.5		
U-134	Collar 00	42°-13'-33"	-28°-45'	86.8	47.57	99.1	10 808.43 7 544.4 el: 1134.11	
U-135	Collar 00	44°-00	-85°	3.9	44.7		10 978.3 # 7 540.5 #	
	99.9	111°-00	-83 1/2°	7.8	48.1		el: 1140.57 # * survey collar only	
	137.2	109°	-83°	5.7	46.2			

HOLE NO.	TEST Pt.	AZIMUTH	P	HOR. DIST.	VERT. DIST.	DEPTH	COORDINATE
U-135 (cont)	182.9	122	-82	4.2	30.1	190.5	
U-133	Collar 0.0	47°-15'-16"	-48°-54'	15.05	17.26		10 808.02 7 544.55 el: 1133.9
	45.7	42-00	-52-00	28.15	36.01		
	91.4	41-00	-59-00	19.62	32.65		
	121.9	42-00	-62-00	7.29	13.72	122.2	
U-141	Collar 0.0	227-05 (Corrected)	+0°-19'	21.3	~0		10 581.78* 7 747.78* el. 1178.56* hzi. corrected to drift change due to ...
	42.7	231	-1°-00	47.15	0.8		
	94.5	238	0	27.7	0	96.3	
U-142	Collar 0.0	223-02-41	29°-33'	24.41	14.10		10 976.41 7 538.10 el. Questionable (1111.22 ?)
	56.4	225-00	-33	58.74	38.13		
	140.2	226-40	-45	37.50	38.89	152.4	
U-143	Collar 0.0	44-00	-28	30.35	14.1		10 585.16 7 751.16 el: 1177.58
	67	47-00	-34	30.28	24.0		
	121.9	54-00	-44	27.4	26.4	132.6	
U-145	Collar 0.0	46-12	-65	9.62	20.6		No Collar Survey Collar Azimuth figure corrected for 2NE shift
	45.72	59-00	-67	17.8	42.0		
	91.44	67-00	-72	16.48	50.65	121.9	
U-149	Collar 0.0	6° 00'	-90°	0	53.3		No Collar Survey Approx 10 839.53 7 502.62 el. 1116.82
	106.6	197	-84	7.92	75.7		
	152.4	192	-83	6.45	52.87	182.9	
U-150	Collar 0.0	218°-15'-16"	-73°-29'	8.63	29.15		10 880.39 7 448.20 el: 1112.58
	60.96	217-00	-77°	13.66	59.4		
	121.9	202-00	-84	6.34	60.6	152.4	

HOLE	TEST Pt.	AZIMUTH	P	HOR DIST	VERT. DIST	LENGTH	Collar Coordinates
U-157	Collar 0.0	0°00'	-90°	0	28.2		No Survey
	56.4	105°	-84°	6.13	58.4		
	117.3	79°	-79°	8.72	44.9	132.6	
U-162	collar 0.0	224°	-65°	8.0	17.2		No Survey Approx. 10 930.5 7409.5 el. 1105.0
	38.1	227°	-66°	15.7	35.4		
	77.7	213°	-71°	13.8	40.2		
	123.4	192°	-76°	12.84	51.7	153.9	
U-163	Collar 0.0	224-07'-16"	-1°-01"	30.49	0.53		10 528.49 7 781.06 el. 1185.48
	61	229-0	0	81.60	0	112.1	
U-166	Collar 0.0	<del>224</del> 0°00'	-90°	0	31.24		No collar Survey
	62.48	214°	-84°	5.66	53.80		
	108.20	184°	-83°	5.48	44.63		
	152.40	150°	-84°	5.5	52.30	182.88	
U-168	Collar 0.0	224°	-60°	17.15	29.70		11 018.0 7495.32 el. 1105.49
	68.58	210°	-71°	16.37	47.55		
	100.58	203°	-74°	8.61	30.03		
	131.06	192°	-75°	7.89	29.44		
	161.54	177°	-76°-30'	4.76	19.8	166.7	
U-172	Collar 0.0	224°	-24°	20.8	9.30		11 017.44 7494.58 el 1105.8
	45.72	221°	-25°	40.37	21.46		
	91.44	219°	-40°	40.80	34.2	121.9	

HOLE	Test Pb.	AZIMUTH	P	HOR. DIST	VERT. DIST	LENGTH	Collar Coordinates 11 052.87 7445.66 cl. 1100.71
U-176	Collar 0.0	224	-70	13	35.6		
	76.2	204	-72	23.5	72.5		
	152.4	182	-70	19.3	53.0	170.7	
U-182	Collar 0.0	0°00'	-90°	0	44.0		10 981.45 7 380.44 cl. 1098.84
	88.1	200°	-82°	10.2	73.7		
	149.0	222°	-80°	6.1	34.2	153.6	
U-184	Collar 0.0	224°	-55°	29.6	42.4		10 978.60 7 377.98 cl. 1095.52
	103.6	208°	-62°	38.3	72.1		
	164.59	200°	-71°	10.7	31.1	167.6	
U-190	Collar 0.0	044°	-70°	12.2	34.2		10 932.85 7 411.76 cl. 1105
	73.1	072°	-81°	8.1	51.2		
	103.6	112	-87°	1.0	18.4	106.7	
U-192	Collar 0.0	52°-52'-42"	-68°-33'	21.2	55.4		10 786.017 7 565.85 cl. 1140.2
	118.8	044	-81°	9.75	61.6	121.9	
U-194	Collar 0.0	132°-32'-45"	-85°-47'	2.22	30.42		10 785.41 7 565.12
	61	272°-00	-85°	5.18	59.3		
	118.9	252°-00	-86°	2.68	38.0	128	
U-196	Collar 0.0	216°-41'-51"	-63°-39'	13.2	27.33		10 784.53 7 564.21 cl. 1140.18
	61	229°	-73°	14.7	48.1		
	100.6	245°	-75°	12.5	47	129.5	
U-198	Collar 0.0	32°	-57				10 709.24 * 7 469.54 * cl. 1172.84 *
	10.7 <sup>th</sup>	33	-56	18.7	27.8		
	56.4	33	-60	22.9	39.6		
	102.1	33	-66	19.2	43.1		
	150.9	23	-71	8.9	25.9	153.9	** include distance fr. collar pt. in ... to test pt.

HOLE	TEST Pt.	AZIMUTH	IP	HOR. DIST	VERT. DIST	LENGTH	Collar Coordinates Elevations
U-205	Collar 0.0	41°-21'-29"	+1°-17'	41.1	0.96		10770.13 7716.55
	82.3	41°-00"	-6	65	6.8	106.6	el. 1155.5
U-208	Collar 0.0	62-04-59	-70°-40'	10.82	30.85		10810.29 7673.37
	65.5	61°-00"	-74°	17.4	60.7		el. 1149.34
	126.5	66-00	-71°	14.4	41.8	140.2	
U-209	Collar 0.0	156-02'-15"	-88°-59'	0.77	44.14		10810.12 7672.49
	88.3	2°-00"	-86	3.72	53.17	97.5	el. 1149.20
U-210	collar 0.0	220°-53'-59"	-66°-59'	21.4	50.5		10809.0 7671.16
	109.1	217°	-77	14.8	64.1	120.4	el. 1149.14
U-211	Collar 0.0	222° (est)	-64	137	28		10742.77 7608.1
	62.5	221	-65	22.8	48.9		el. 1149.55
	108.2	217	-71	9.4	27.3	114.3	
U-213	Collar 0.0	46°-00'-42"	-64°-56'	15.46	33.2		10744.65 7609.87
	73.2	43-00	-68	22.30	55.17		el. 1149.49
	118.9	53-00	-73	7.57	24.77	121.9	
U-215	collar 0.0	64°-18'-38"	-65°-11'	18.8	40.74		10859.15 7635.76
	89.9	55-00	-70°-30'	22.5	63.8		el. 1137.9
	135.6	32-00	-75°	6.66	24.9	138.6	
U-216	Collar 0.0	225°-25'-17"	-81°-28'	4.5	30.2		10958.26 7633.33
	61	204-00	-82	8.5	60.8		el. 1137.97
	121.9	157-00	-82	6.6	47.2	138.7	
U-217	c.o.	258°-00"	-85°				10707.47
	12.2	283-00	-82	5.9	42.2		7467.90
	73.1	357-00	-87	2.8	53.2		el. 1172.83
	118.9	Can't read	-90 (?)	0	27.4	123.4	

HOLE No.	Test Pt.	AZIMUTH	DIP	HOR. DIST.	VERT. DIST.	Length
U-129	Collar 0.0	224°	-56°	22.3	33.1	
	79.9	226°	-61°	26.7	48.2	
	110.3	226°	-63°	13.8	27.1	
	140.8	227°	-64°	7.3	15.0	123.4

Coordinates  
 10,850.0  
 7,587.8  
 el. 1137.6