MDIG 1/77

U.S.G.S. GEOPOTENTIAL SENSOR LOG: LEG 4 EQUIP. TYPE MAGGIE / GRAV PAGE 1 OF

LOCATOR F4 (ID.) - 86 (YR.) - BS (AREA) TOW DIST./DEPTH: SOURCE RECEIVER SHIP

RECORDER TYPE/NO. CHIEF SCIENTIST COOPER / KENYON

PUNCH FLAG	TIME & POSITION * JULIAN DAY	GMT HR.-MIN.	GMT SEC.	LINE NO.	STA. NO. OR SHOT POINT	(COL. 73-80) ARCHIVE NO. MED./SPEC. CODE 3 LETT'S	DATA/EQUIP. CODE 4 LETTERS	ROLL, REEL OR SEQUENCE NO. 5 LET/NO.	'X' IN ONE BOX ONLY S/E OF ROLL, REEL STRT	S/E OF ROLL, REEL END	DATA/SYST RECORDING ON	DATA/SYST RECORDING OFF	COMMENTS	COURSE	SPEED	SYSTEM 1: GRAVITY REC. SCALE SAMPLE RATE	SYSTEM 1: GRAVITY DIGITAL ANALOG	SYSTEM 2: MAGNETICS REC. SCALE SAMPLE RATE	SYSTEM 2: MAGNETICS MSTR. READING SLAVE READING
	247	0057		**		SYS	GRAD	*			X								
	247	0057		110		MAG	GRAD	1	X				SYS ON	237	7.6				
	247	0057		110		PAP	GRAD	1	X				SYS ON	237	7.6				
	247	0057		110		MAG	GRAD	1	X				SYS ON	237	7.6				
	247	0200		110		MAG	GRAD	1					" "	245	7.7			50563	50574
	247	0000		110		~~MAG GRAV~~	GRA	1	X				SYS ON						
	247	0229		110		MAG	GRAD					X	SYS OFF						
	247	0229		110		PAP	GRAD					X	SYS OFF						
	247	0309		110		PAP	GRAV						GRAV: 12749.8 ST: 12748.6						
	247	0348		110		MAG	GRAD	2	X				SYS BACK ON						50619 / 50613
	247	0348		110		~~PAP~~	GRAD		~~X~~		X		" " "						
	247	0400		110									Routine	GRAV →	12743.0 / 12740.6 ST				50619 / 50613
	247	0500		110									Routine	236	7.5	12736.5 / 12735.1			50707 / 50536
	247	0550		110		MAG	GRAD	2		X			TAPE ROE PROBLEMS						
	247	0555		110		MAG	GRAD	3	X				START TAPE DR down CLEANED BACK UP						
													Routine	236	7.8	12723.5 / 12722.3			50413 / 50406
	1-3	5-8	9, 10	12-15	16-19	21-23	25-28	29-33	37	38	39	40							

* PLEASE RIGHT-JUSTIFY THESE ENTRIES

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MDIG 1/77

U.S.G.S. GEOPOTENTIAL SENSOR LOG:

LEG 4 EQUIP. TYPE Maggie/Grav PAGE 2 OF _____

LOCATOR F4 (ID) - 86 (YR) - BS (AREA) TOW DIST./DEPTH: SOURCE _____ RECEIVER _____ SHIP FARNELLA

RECORDER TYPE/NO. _____ CHIEF SCIENTIST Cooper/Kenyon

PUNCH FLAG	TIME & POSITION * JULIAN DAY	GMT HR.-MIN.	GMT SEC.	LINE NO. **	STA. NO. OR SHOT POINT	MED/SPEC. CODE 3 LETT'S	ARCHIVE NO. DATA/EQUIP. CODE 4 LETTERS	ARCHIVE NO. ROLL, REEL OR SEQUENCE NO. 5 LET/NO. *	'X' IN ONE BOX ONLY S/E OF ROLL, REEL STRT	S/E OF ROLL, REEL END	DATA/SYST RECORDING ON	DATA/SYST RECORDING OFF	COMMENTS	COURSE	SPEED	SYSTEM 1: GRAVITY REC. SCALE SAMPLE RATE	SYSTEM 1: GRAVITY DIGITAL ANALOG	SYSTEM 2: MAGNETICS REC. SCALE SAMPLE RATE	SYSTEM 2: MAGNETICS MSTR. READING SLAVE READING
	247	0700		110				1					Routine	236	7.6	12716.4 / 12717.5			50236 / 50234
		0800		110									Routine	234	6.7	12721.6 / 12724.5			50141 / 50172
		0900		110									"	235	6.4	12709.8 / 12706.1			50208 / 50216
		1000		110									"	233	?	12704.9 / 12698.1			50214 / 50208
		1100		110									"	236	?	12693.2 / 12681.9			50065 / 50063
		1200		110									"	231	7.5	12692.0 / 12682.1			50466 / 50466
		1300		110									"	233	8.6	12700.8 / 12699.9			50342 / 50342
		1400		110									"	236	8.6	12726.1 / 12728.0			50003 / 50004
		1500		110										235	7.5	12732.1 / 12731.1			49948 / 49954
		1600												232	6.5	12719.0 / 12709.9			49854 / 49861
		1700		110										231	7.6	12713.1 G / 12711.9 S			49831 / 48822
		~~1730~~ 1800		~~110~~ 110		~~MAG~~	~~GRAV~~	1		~~X~~			~~End Act 1~~	~~232~~	6.8	12695.4 / 12680.3			50064 / 50066
		~~1950~~		~~110~~										~~232~~	~~6.8~~				
		1900		110										226	7.1	12707.8 / 12706.1			49966 / 49972
		2000		110										222	7.9	12723.5 / 12703.4			49879 / 49672
	1-3	5-8	9, 10	12-15	16-19	21-23	25-28	29-33	37	38	39	40							

* PLEASE RIGHT-JUSTIFY THESE ENTRIES

** DO NOT ENTER ST/END OF LINE ON THIS FROM (FOR KEYPUNCHING)

MDIG 1/77

U.S.G.S. GEOPOTENTIAL SENSOR LOG: LEG 4 EQUIP. TYPE Gradiometer PAGE 3 OF

LOCATOR F4 - 86 - 05 (ID - YR - AREA) (COL. 73-80) TOW DIST./DEPTH: SOURCE RECEIVER SHIP Farnella

RECORDER TYPE/NO. CHIEF SCIENTIST Cooper / Kenyon

PUNCH FLAG	TIME & POSITION * JULIAN DAY	GMT HR.-MIN.	GMT SEC.	LINE NO. **	STA. NO. OR SHOT POINT	MED/SPEC. CODE 3 LETT'S	ARCHIVE NO. DATA/EQUIP. CODE 4 LETTERS	ARCHIVE NO. ROLL, REEL OR SEQUENCE NO. 5 LET/NO. *	'X' IN ONE BOX ONLY S/E OF ROLL, REEL STRT	S/E OF ROLL, REEL END	DATA/SYST RECORDING ON	DATA/SYST RECORDING OFF	COMMENTS	COURSE	SPEED	SYSTEM 1: GRAVITY REC. SCALE SAMPLE RATE	SYSTEM 1: GRAVITY DIGITAL ANALOG	SYSTEM 2: MAGNETICS REC. SCALE SAMPLE RATE	SYSTEM 2: MAGNETICS MSTR. READING SLAVE READING
✓	247	21.00												227	7.8	12674.6 / 12653.5			49387 / 49400
✓		22.08												232	7.8	12684.5 / 12662.1			49394 / 49397
		22.55		110									End 110						
		22.58		111									START 111						
✓	247	23.00		111										328	8.2	12680.3 / 12679.3			49878 / 49871
✓	248	0.000		112									LINE 112			12622.4 / 12618.1			49814 / 49812
✓		01.00		112										063	8.8	12606.3 / 12615.3			49720 / 49737
✓		02.00		112										057	8.3	12624.7 / 12636.3			49757 / 49762
✓		03.00		112										060	8.5	12622.6 / 12632.4			49934 / 49934
✓		04.00		112										058	7.8	12642.0 / 12655.5			49823 / 49816
✓		05.00		112										062	7.6	12636.5 / 12647.6			50029 / 50023
✓		06.00		112										062	8.0	12644.3 / 12647.0			50155 / 50156
✓		07.00		112										064	7.4	12648.6 / 12650.8			50117 / 50121
✓		08.00		112										066	7.6	12666.0 / 12669.1			50680 / 50674
✓		09.00		112										069	7.8	12648.0 / 12637.4			50123 / 50132
	1-3	5-8	9, 10	12-15	16-19	21-23	25-28	29-33	37	38	39	40							

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MDIG 1/77

U.S.G.S. GEOPOTENTIAL SENSOR LOG:

LEG 4 EQUIP. TYPE Gradiometer PAGE 4 OF

LOCATOR F4 (ID.) - 86 (YR.) - B5 (AREA) TOW DIST./DEPTH: SOURCE RECEIVER SHIP Farnella

(COL. 73-80) ARCHIVE NO. RECORDER TYPE/NO. CHIEF SCIENTIST Cooper / Kenyon

PUNCH FLAG	TIME & POSITION * JULIAN DAY	GMT HR.-MIN.	GMT SEC.	LINE NO. **	STA. NO. OR SHOT POINT	MED/SPEC. CODE 3 LETT'S	DATA/EQUIP. CODE 4 LETTERS	ROLL, REEL OR SEQUENCE NO. * 5 LET/NO.	'X' IN ONE BOX ONLY: S/E OF ROLL, REEL STRT	S/E OF ROLL, REEL END	DATA/SYST RECORDING ON	DATA/SYST RECORDING OFF	COMMENTS	COURSE	SPEED	SYSTEM 1: GRAVITY REC. SCALE SAMPLE RATE	SYSTEM 1: GRAVITY DIGITAL ANALOG	SYSTEM 2: MAGNETICS REC. SCALE SAMPLE RATE	SYSTEM 2: MAGNETICS MSTR. READING SLAVE READING
	248	1000		112									Routine	068	7.3	12636.7 12636.1			50181 50182
		1100											"	065	8.5	12632.9 12637.9			50211 50208
		1200											"	061	8.5	12645.8 12649.3			50231 50229
		1300											"	058	7.8	12652.8 12655.5			50268 50266
		1400												059	6.5	12680.8 12681.2			50383 50383
		1500												062	7.3	12698.7 12698.5			50405 50405
		1600												060	7.5	12705.4 12703.8			50448 50451
		1700		113										325	7.9	12761.3 12760.3			50463 50466
	173338	1800		114		MAG	GRAVS	1/2	X	X			185-4 FOUND JD WORKING 247/248	245	7.7	12778.0 12777.9			50426 50433
		1900		114		PAP	GRAD	2	X				START PAPER	241	8.2	12779.2 12780.0			50381 50388
		1855				PAP	GRAD	1		X			End PAPER						50400 50406
		2000		114										240	7.8	12773.8 12773.4			
		2100		114										241	8.6	12762.6 12759.7			50375 50376
		2200		114										239	8.0	12749.2 12747.3			50287 50287
		2300		114			GRAD							239	7.9	12735.3 12733.0			50306 50310
	1-3	5-8	9, 10	12-15	16-19	21-23	25-28	29-33	37	38	39	40							

* PLEASE RIGHT-JUSTIFY THESE ENTRIES

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U.S.G.S. GEOPOTENTIAL SENSOR LOG:

LEG 4 EQUIP. TYPE GRADIOMETER / GRAVITYMETER PAGE 5 OF _____

LOCATOR F4 - 86 - BS (ID. - YR. - AREA) (COL. 73-80) TOW DIST./DEPTH: SOURCE _____ RECEIVER _____ SHIP FARNELLA

RECORDER TYPE/NO. _____ CHIEF SCIENTIST Cooper / Kenyon

PUNCH FLAG	TIME & POSITION * JULIAN DAY	GMT HR.-MIN.	GMT SEC.	LINE NO. **	STA. NO. OR SHOT POINT	MED/SPEC. CODE 3 LETT'S	ARCHIVE NO. DATA/EQUIP. CODE 4 LETTERS	ARCHIVE NO. ROLL, REEL OR SEQUENCE NO. 5 LET/NO. *	'X' IN ONE BOX ONLY S/E OF ROLL, REEL STRT	S/E OF ROLL, REEL END	DATA/SYST RECORDING ON	DATA/SYST RECORDING OFF	COMMENTS	COURSE	SPEED	SYSTEM 1: GRAVITY REC. SCALE SAMPLE RATE	SYSTEM 1: GRAVITY ~~DIGITAL~~ ANALOG	SYSTEM 2: MAGNETICS REC. SCALE SAMPLE RATE	SYSTEM 2: MAGNETICS MSTR. READING SLAVE READING
✓	249	0000		114										235	8.1		12712.9 12710.5		50199 50203
✓	249	0100		114										239	8.0		12707.5 12707.8		50124 50115
✓		0045		114		PAP	GRVS	1		X			End Roll 1						
✓	249	0112		114		PAP	GRVS	2	X				Start Roll 2	239	8.2				
✓	249	0200		114									Routine	239	8.2		12710.6 12705.6		50179 50174
✓	249	0300		114										239	7.9		12708.5 12703.8		50125 50128
✓	249	0400		114										241	7.4		12703.7 12696.3		49985 49983
✓	249	0500		114										242	7.4		12710.0 12703.6		49875 49874
✓	249	0600		114										242	8.2		12717.2 12710.5		49832 49833
✓	249	0700		114										242	8.4		12695.2 12688.6		49889 49888
✓		0800												244	8.5		12680.6 12678.8		49916 49913
✓		0900												245	8.0		12682.6 12677.9		49863 49862
✓		1000												241	7.9		12681.8 12677.4		49752 49753
✓		1100												238	8.3		12680.8 12677.3		49760 49760
✓		1200												237	8.0		12654.9 12650.9		49644 49641
	1-3	5-8	9, 10	12-15	16-19	21-23	25-28	29-33	37	38	39	40							

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U.S.G.S. GEOPOTENTIAL SENSOR LOG:

LEG 4 EQUIP. TYPE Gradiometer / Magnetometer PAGE 6 OF _____

LOCATOR F4 - 86 - BS (ID. - YR. - AREA) (COL. 73-80) TOW DIST./DEPTH: SOURCE _____ RECEIVER _____ SHIP Farnella

RECORDER TYPE/NO. _____ CHIEF SCIENTIST Couper / Kenyon

PUNCH FLAG	TIME & POSITION * JULIAN DAY	GMT HR.-MIN.	GMT SEC.	LINE NO. **	STA. NO. OR SHOT POINT	MED/SPEC. CODE 3 LETT'S	ARCHIVE NO. DATA/EQUIP. CODE 4 LETTERS	ARCHIVE NO. ROLL, REEL OR SEQUENCE NO. 5 LET/NO. *	'X' IN ONE BOX ONLY S/E OF ROLL, REEL STRT	S/E OF ROLL, REEL END	DATA/SYST RECORDING ON	DATA/SYST RECORDING OFF	COMMENTS	COURSE	SPEED	SYSTEM 1: GRAVITY REC. SCALE SAMPLE RATE	SYSTEM 1: GRAVITY DIGITAL ANALOG	SYSTEM 2: MAGNETICS REC. SCALE SAMPLE RATE	SYSTEM 2: MAGNETICS MSTR. READING SLAVE READING
✓	249	1300		0114				2					Routine	241	8.2	~~12674.8~~	12674.8 12671.7		49451 49456
✓		1400											"	245	8.1		12662.4 12658.6		49360 49355
✓		1500											"	246	8.4		12649.7 12646.1		49547 49543
✓		1600		1114									"	244	7.9		12657.3 12651.5		49581 49582
✓		1700												239	7.8		12675.4 12675.7		49580 49584
✓		1800												242	7.4		12682.6 12678.8		49457 49449
✓		1900												250	7.5		12674.6 12669.6		49390 49387
✓		2000												243	7.7		12662.4 12661.2		49476 49483
✓		2100												236	10.1		12657.9 12652.5		49278 49285
✓		2200		1114									Routine	235	9.3		12688.7 12686.9		49257 49252
✓	249	2300		1174										239	8.4		12688.3 12685.8		49212 49217
✓	250	0000		1114										253	8.4		12652.2 12643.2		49225 49234
✓	250	0100		1114										250	8.9		12628.4 12625.5		49339 49343
✓	250	0200		1114										246	8.5		12601.0 12600.1		49053 49060
✓	250	0300		1114										244	8.3		12603.0 12603.5		48728 48731
	1-3	5-8	9, 10	12-15	16-19	21-23	25-28	29-33	37	38	39	40							

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MDIG 1/77

U.S.G.S. GEOPOTENTIAL SENSOR LOG: LEG 4 EQUIP. TYPE Gradiometer / Gravitymeter PAGE 7 OF

LOCATOR F4 - 86 - BS (ID. - YR. - AREA) (COL. 73-80) TOW DIST./DEPTH: SOURCE RECEIVER SHIP FARNELLA

RECORDER TYPE/NO. CHIEF SCIENTIST

PUNCH FLAG	TIME & POSITION * JULIAN DAY	GMT HR.-MIN.	GMT SEC.	LINE NO.	STA. NO. OR SHOT POINT	MED/SPEC. CODE (3 LETT'S)	ARCHIVE NO. DATA/EQUIP. CODE (4 LETTERS)	ARCHIVE NO. ROLL, REEL OR SEQUENCE NO. (5 LET/NO.)	'X' IN ONE BOX ONLY S/E OF ROLL, REEL STRT	S/E OF ROLL, REEL END	DATA/SYST RECORDING ON	DATA/SYST RECORDING OFF	COMMENTS	COURSE	SPEED	SYSTEM 1: GRAVITY REC. SCALE / SAMPLE RATE	SYSTEM 1: GRAVITY DIGITAL / ANALOG	SYSTEM 2: MAGNETICS REC. SCALE / SAMPLE RATE	SYSTEM 2: MAGNETICS MSTR. READING / SLAVE READING
				**				*											
✓	250	0400		1.1.4										241	7.9		12622.8 12619.8		48660 48660
✓	250	0550		1.1.5													12714.6 12722.8		49169 49153
✓	250	0600		1.1.6										059	8.4		12596.9 12593.1		49089 49085
✓	250	0700		1.1.6										056	8.6		12604.3 12599.0		49342 49336
✓		0800											Routine	055	8.3		12601.8 12603.7		49094 49097
✓		0900												055	8.3		12584.8 12581.8		49245 49246
✓		1000												~~060~~	~~8.2~~		12567.7 12563.8		49056 49056
✓		1100												060	8.2		12568.3 12569.3		49183 49185
✓		1200												052	8.0		12580.2 12580.7		49359 49362
✓		1300												059	8.2		12573.1 12570.3		49390 49398
✓		1400												062	7.9		12569.0 12569.6		49516 49519
✓		1500												061	7.8		12573.7 12573.7		49528 49536
✓		1600											JD ON MAG NOT CHANGED from 249 TO 250	060	7.7		12574.4 12577.2		49442 49440
✓		1700											CHANGED AT 1600Z	056	8.1		12576.1 12574.6		49529 49533
✓	250	1728		1.1.6		MAG	GRVS	2		X			End TAPE #2	060	8.1				
	1-3	5-8	9, 10	12-15	16-19	21-23	25-28	29-33	37	38	39	40							

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MDIG 1/77

U.S.G.S. GEOPOTENTIAL SENSOR LOG: LEG 4 EQUIP. TYPE GRADiometer/Gravity meter PAGE 8 OF

LOCATOR F4 (ID.) - 86 (YR.) - BS (AREA) (COL. 73-80) TOW DIST./DEPTH: SOURCE RECEIVER SHIP FARNELLA

RECORDER TYPE/NO. CHIEF SCIENTIST

PUNCH FLAG	TIME & POSITION * JULIAN DAY	GMT HR.-MIN.	GMT SEC.	LINE NO. **	STA. NO. OR SHOT POINT	MED/SPEC. CODE 3 LETT'S	ARCHIVE NO. DATA/EQUIP. CODE 4 LETTERS	ARCHIVE NO. ROLL, REEL OR SEQUENCE NO. 5 LET/NO. *	'X' IN ONE BOX ONLY S/E OF ROLL, REEL STRT	S/E OF ROLL, REEL END	DATA/SYST RECORDING ON	DATA/SYST RECORDING OFF	COMMENTS	COURSE	SPEED	SYSTEM 1: GRAVITY REC. SCALE SAMPLE RATE	SYSTEM 1: GRAVITY DIGITAL ANALOG	SYSTEM 2: MAGNETICS REC. SCALE SAMPLE RATE	SYSTEM 2: MAGNETICS MSTR. READING SLAVE READING
	250	1730		1116		MAG	~~GRVS~~	3	X				Start Tape # 3	060	8.1		~~12589.2~~		
	250	1800											Routine	060	8.0		12589.2 12591.2		49683 49689
	250	1900											"	060	8.2		12579.9 12578.5		49651 49653
		2000											"	064	8.2		12586.4 12588.1		49686 49687
		2100											"	062	8.3		12588.1 12589.7		49956 49955
		2200				PAP	GRAD	3	X				"	059	8.4		12600.4 12604.0		49924 49922
		2155				PAP	GRAD	2		X									
	250	2300											Routine	059	8.7		12608.1 12607.9		49904 49902
	251	0000											"	059	9.0		12616.5 12619.1		49989 49990
		0100											"	059	8.5		12633.1 12636.8		50068 50071
		0105				PAP	GRVS	2		X			End Roll 2						
		0107		1116		PAP	GRVS	3	X				Start Roll 3						
		0200												063	8.4		12633.1 12635.3		50067 50071
		0300		1116										058	8.2		12654.5 12655.0		50079 50078
		0400		1116										058	8.4		12645.2 12645.4		50170 50169
	1-3	5-8	9, 10	12-15	16-19	21-23	25-28	29-33	37	38	39	40							

* PLEASE RIGHT-JUSTIFY THESE ENTRIES

** DO NOT ENTER ST/END OF LINE ON THIS FROM (FOR KEYPUNCHING)

U.S.G.S. GEOPOTENTIAL SENSOR LOG:

LEG 4 EQUIP. TYPE GRADIOMETER / GRAVITY PAGE 9 OF _____

LOCATOR F4 - 86 - BS (COL. 73-80) (I.D. - YR. - AREA)

TOW DIST./DEPTH: SOURCE _____ RECEIVER _____ SHIP FARNELLA

RECORDER TYPE/NO. _____ CHIEF SCIENTIST COOPER / KENYON

PUNCH FLAG	TIME & POSITION * JULIAN DAY	GMT HR.-MIN.	GMT SEC.	LINE NO. **	SHOT POINT	MEDIA/SPEC. CODE 3 LETT'S.	DATA/EQUIP. CODE 4 LETTERS	ARCHIVE NO. ROLL OR REEL NO. 4 LET./No. *	PUT 'X' IN COR. BOX S/E OF ROLL, REEL STRT	S/E OF ROLL, REEL END	DATA/SYST RECORDING ON	DATA/SYST RECORDING OFF	COMMENTS	COURSE	SPEED	SYSTEM 1: GRAVITY REC. SCALE / SAMPLE RATE	SYSTEM 1: GRAVITY DIGITAL / ANALOG	SYSTEM 2: MAGNETICS REC. SCALE / SAMPLE RATE	SYSTEM 2: MAGNETICS MSTR. READING / SLAVE READING
✓	251	05:00		1.16									Routine	061	8.1		12641.3 12643.8		50279 50280
✓	251	06:00		1.16										063	8.0		12641.2 12644.1		050271 50273
✓	251	07:00		1.16										065	8.4		12647.5 12650.0		50171 50175
✓	251	08:00		1.16										066	7.8		12673.7 12678.3		50219 50217
✓		09:00												066	8.0		12691.3 12693.6		50345 50349
✓		10:00												066	8.4		12700.5 12702.6		50345 50349
✓		11:08												069	9.1		12710.7 12713.4		50544 50547
✓		12:00												072	7.7		12721.0 12722.0		50489 50493
✓		13:00		1.16										068	8.3		12726.6 12729.8		50492 50496
✓		15:00		1.17									EOL 116	319	6.9		12789.3 12788.9		50340 50343
✓		16:00		1.17										311	8.0		12798.0 12797.6		50413 50413
✓		17:00											Routine	313	8.0		12804.1 12804.4		50447 50456
✓		18:00											4	314	8.1		12812.3 12810.9		50728 50723
✓		19:00											4	315	8.0		12817.0 12815.0		506 22 506 25
✓	251	20:00		1.17									1'	313	8.0		12799.7 12794.7		505 82 505 84
	1-3	5-8	9,10	12-15	16-19	21-23	25-28	29-32	37	38	39	40							

* PLEASE RIGHT-JUSTIFY THESE ENTRIES

** DO NOT ENTER ST/END OF LINE ON THIS FORM (FOR KEYPUNCHING)

MDIG 1/77

U.S.G.S. GEOPOTENTIAL SENSOR LOG:

LEG 4 EQUIP. TYPE GRADIOMETER/GRAVITY PAGE 10 OF _____

TOW DIST./DEPTH: SOURCE _____ RECEIVER _____ SHIP FARNELLA

LOCATOR F4 - 86 - B5 (ID. - YR. - AREA) (COL. 73-80) RECORDER TYPE/NO. _____ CHIEF SCIENTIST COOPER/KENYON

PUNCH FLAG	TIME & POSITION * JULIAN DAY	GMT HR.-MIN.	GMT SEC.	LINE NO. **	STA. NO. OR SHOT POINT	MED./SPEC. CODE 3 LETT'S	ARCHIVE NO. DATA/EQUIP. CODE 4 LETTERS	ARCHIVE NO. ROLL, REEL OR SEQUENCE NO. 5 LET/NO. *	'X' IN ONE BOX ONLY S/E OF ROLL, REEL STRT	S/E OF ROLL, REEL END	DATA/SYST RECORDING ON	DATA/SYST RECORDING OFF	COMMENTS	COURSE	SPEED	SYSTEM 1: GRAVITY REC. SCALE / SAMPLE RATE	SYSTEM 1: GRAVITY DIGITAL / ANALOG	SYSTEM 2: MAGNETICS REC. SCALE / SAMPLE RATE	SYSTEM 2: MAGNETICS MSTR. READING / SLAVE READING
✓	251	21.50		117										317	8.1		12797.0 12778.3		50718 50721
✓		22.00		117										318	8.6		12809.7 12810.6		50661 50663
✓		23.00												317	8.8		12832.2 12833.1		50659 50661
✓	252	00.00		117										306	8.8		12878.0 12881.8		50683 50684
✓		01.00		117										311	8.5		12893.9 12889.1		50651 50648
✓		02.00		117										315	8.4		12840.2 12833.5		50847 50846
✓		03.00		117										315	8.5		12818.1 12814.8		50958 50958
✓		04.00		118										012	8.7		12796.8 12801.7		50995 50994
✓		05.00		118										011	8.2		12885.8 12891.7		51158 51161
✓		06.00		119										103	8.5		12837.8 12836.8		51464 51463
✓	252	07.00		119										103	8.6		12857.9 12855.2		51410 51415
✓		08.11		120										225	8.2		12887.4 12904.0		51271 51274
✓		09.05		(										225	8.8		12860.2 12855.7		51240 51246
✓		10.03		)										222	8.3		12856.0 12846.7		50927 50929
✓		10.51		)													12814.4 12813.3		50922 50926
	1-3	5-8	9, 10	12-15	16-19	21-23	25-28	29-33	37	38	39	40							

* PLEASE RIGHT-JUSTIFY THESE ENTRIES

** DO NOT ENTER ST/END OF LINE ON THIS FROM (FOR KEYPUNCHING)

MDIG 1/77

U.S.G.S. GEOPOTENTIAL SENSOR LOG:

LEG 4 EQUIP. TYPE Gradiometer/Gravity PAGE 11 OF _____

LOCATOR F4 (ID.) - 86 (YR.) - BS (AREA) TOW DIST./DEPTH: SOURCE _____ RECEIVER _____ SHIP Farnella

RECORDER TYPE/NO. _____ CHIEF SCIENTIST Cooper/Kenyon

PUNCH FLAG	TIME & POSITION * JULIAN DAY	GMT HR.-MIN.	GMT SEC.	LINE NO. **	STA. NO. OR SHOT POINT	ARCHIVE NO. MED/SPEC. CODE 3 LETT'S	ARCHIVE NO. DATA/EQUIP. CODE 4 LETTERS	ARCHIVE NO. ROLL, REEL OR SEQUENCE NO. * 5 LET/NO.	'X' IN ONE BOX ONLY S/E OF ROLL, REEL STRT	S/E OF ROLL, REEL END	DATA/SYST RECORDING ON	DATA/SYST RECORDING OFF	COMMENTS	COURSE	SPEED	SYSTEM 1: GRAVITY REC. SCALE / SAMPLE RATE	SYSTEM 1: GRAVITY DIGITAL / ANALOG	SYSTEM 2: MAGNETICS REC. SCALE / SAMPLE RATE	SYSTEM 2: MAGNETICS MSTR. READING / SLAVE READING
✓	252	12,00,0		121									Routine	288	8.0		12796.8 12792.9		50998 50998
✓		13,00												288	8.4		12827.8 12830.4		51152 51152
✓		14,00												288	8.9		12842.0 12838.5		51098 51099
✓		15,00												288	8.8		12905.8 12904.0		50985 50987
✓		16,00		121									?	223	8.7		12859.2 12854.3		50943 50947
✓		17,00		122										228	7.5		12841.6 12838.5		50896 50897
		~~17,49~~		~~122~~		MAG	GRAD	2		X			TAPE	~~226~~	~~8.1~~		~~12841.6~~ ~~12838.5~~		~~50896~~ ~~50897~~
		~~17,53~~		~~122~~		MAG	GRAD	3	X				TAPE	~~226~~	~~8.1~~				
✓		18,00		122										223	8.7		12838.8 12835.2		50865 50866
✓		19,00		123										115	7.1		12786.0 12793.3		50827 50839
✓		20,00		123										114	8.0		12774.0 12779.6		50862 50867
✓		21,00												114	8.2		12785.0 12785.3		50871 50876
✓		22,00											Routine	114	8.3		12731.0 12722.1		50938 50939
✓	252	23,00		123									11	114	8.4		12718.3 12721.9		51094 51102
✓	253	0,00,0		123									11	114	8.4		12726.3 12730.0		51058 51062
	1-3	5-8	9, 10	12-15	16-19	21-23	25-28	29-33	37	38	39	40							

* PLEASE RIGHT-JUSTIFY THESE ENTRIES

** DO NOT ENTER ST/END OF LINE ON THIS FROM (FOR KEYPUNCHING)

U.S.G.S. GEOPOTENTIAL SENSOR LOG:

LEG 4 EQUIP. TYPE GRADIOMETER/GRAVITY PAGE 12 OF _____

LOCATOR F4 - 86 - BS (COL. 73-80)
I.D. YR. AREA

TOW DIST./DEPTH: SOURCE _____ RECEIVER _____ SHIP FARNELLA

RECORDER TYPE/NO. _____ CHIEF SCIENTIST COOPER/KENYON

PUNCH FLAG	TIME & POSITION * JULIAN DAY	GMT HR.-MIN.	GMT SEC.	LINE NO. **	SHOT POINT	ARCHIVE NO. MEDIA/SPEC. CODE 3 LETT'S.	DATA/EQUIP. CODE 4 LETTERS	ROLL OR REEL NO. 4 LET./No. *	PUT 'X' IN COR. BOX S/E OF ROLL, REEL STRT	END	DATA/SYST RECORDING ON	OFF	COMMENTS	COURSE	SPEED	SYSTEM 1: GRAVITY REC. SCALE / SAMPLE RATE	SYSTEM 1: GRAVITY DIGITAL / ANALOG	SYSTEM 2: MAGNETICS REC. SCALE / SAMPLE RATE	SYSTEM 2: MAGNETICS MSTR. READING / SLAVE READING
✓	253	0100		123										130	8.5		12762.5 12767.9		50879 50878
✓	253	0200		123										130	8.5		12754.8 12756.8		50846 50846
~~✓~~	~~253~~	~~0246~~		~~123~~		~~PAP~~	~~GRAD~~	~~3~~		~~X~~			~~END ROLL 3~~						
~~✓~~	~~253~~	~~0249~~		~~123~~		~~PAP~~	~~GRAD~~	~~4~~	~~X~~				~~START ROLL 4~~						
✓	253	0300		123										132	8.9		12753.6 12756.8		50798 50807
~~✓~~	~~253~~	~~0314~~		~~123~~		~~PAP~~	~~GRVS~~	~~3~~		~~X~~			~~END ROLL 3~~						
~~✓~~	~~253~~	~~0316~~		~~123~~		~~PAP~~	~~GRVS~~	~~4~~	~~X~~				~~START ROLL 4~~						
✓	253	0400		123										131	8.0		12750.3 12751.8		50765 50769
✓	247	0000		110		MAG	GRVS	1	X				START TAPE 1 Gravity						
✓	248	1730		114		MAG	GRVS	1		X			END TAPE 1 Gravity						
✓	248	1731		114		MAG	GRVS	2	X				START TAPE 2 Gravity						
✓	250	1728		116		MAG	GRVS	2		X			END TAPE 2 Gravity						
✓	250	1730		116		MAG	GRVS	3	X				START TAPE 3 Gravity						
✓	252	1749		122		MAG	GRVS	3		X			END TAPE 3 Gravity						
✓	252	1753		122		MAG	GRVS	4	X				START TAPE 4 Gravity						
	1-3	5-8	9,10	12-15	16-19	21-23	25-28	29-32	37	38	39	40							

* PLEASE RIGHT-JUSTIFY THESE ENTRIES

** DO NOT ENTER ST/END OF LINE ON THIS FORM (FOR KEYPUNCHING)

U.S.G.S. GEOPOTENTIAL SENSOR LOG:

LEG 4 EQUIP. TYPE GRADIOMETER / GRAVITY PAGE 13 OF _____

LOCATOR F4 - 86 - BS (COL. 73-80)
I.D. YR. AREA

TOW DIST./DEPTH: SOURCE _____ RECEIVER _____ SHIP FARNELLA

RECORDER TYPE/NO. _____ CHIEF SCIENTIST COOPER / KENYON

PUNCH FLAG	TIME & POSITION * JULIAN DAY	GMT HR.-MIN.	GMT SEC.	LINE NO. **	SHOT POINT	ARCHIVE NO. MEDIA/SPEC. CODE 3 LETT'S.	DATA/EQUIP. CODE 4 LETTERS	ROLL OR REEL NO. 4 LET./No. *	PUT 'X' IN COR. BOX S/E OF ROLL, REEL STRT	END	DATA/SYST RECORDING ON	OFF	COMMENTS	COURSE	SPEED	SYSTEM 1: GRAVITY REC. SCALE / SAMPLE RATE	SYSTEM 1: GRAVITY DIGITAL / ANALOG	SYSTEM 2: MAGNETICS REC. SCALE / SAMPLE RATE	SYSTEM 2: MAGNETICS MSTR. READING / SLAVE READING
✓	246	2029	.	TRAN		PAP	GRVS	1	X				Start Roll 1 Gravity						
✓	249	0045	.	1114				1		X			End Roll 1 Gravity						
✓	249	0109	.	1114				2	X				Start Roll 2 Gravity						
✓	251	0105	.	1116				2		X			End Roll 2 Gravity						
✓	251	0107	.	1116				3	X				Start Roll 3 Gravity						
✓	253	0314	.	123				3		X			End Roll 3 Gravity						
✓	253	0316	.	123		PAP	GRVS	4	X				Start Roll 4 GRAVITY						
✓	247	0057	.	110		MAG	GRAD	1	X				Start Tape 1 Gradiometer						
✓	247	0229	.	110				1		X			End Tape 1 Gradiometer						
✓	247	0348	.	110				2	X				Start Tape 2 Gradiometer						
✓	247 (07)	0550	.	110				2		X			End Tape 2 Gradiometer						
✓	247	0555	.	110		MAG	GRAD	3	X				Start Tape 3 Gradiometer						
✓	247	0057	.	110		PAP	GRAD	1	X				Start Roll 1 Gradiometer						
✓	248	1833	.	114		〃	〃	1		X			End Roll 1 Gradiometer						
✓	248	1856	.	114		PAP	GRAD	2	X				Start Roll 2 Gradiometer						
	1-3	5-8	9,10	12-15	16-19	21-23	25-28	29-32	37	38	39	40							

* PLEASE RIGHT-JUSTIFY THESE ENTRIES

** DO NOT ENTER ST/END OF LINE ON THIS FORM (FOR KEYPUNCHING)

U.S.G.S. GEOPOTENTIAL SENSOR LOG: LEG 4 EQUIP. TYPE GRADIOMETER/GRAVITY PAGE 14 OF _____

LOCATOR F4 (I.D.) - 86 (YR.) - BS (AREA) (COL. 73-80) TOW DIST./DEPTH: SOURCE _____ RECEIVER _____ SHIP FARNELLA

RECORDER TYPE/NO. _____ CHIEF SCIENTIST COOPER/KENYON

PUNCH FLAG	TIME & POSITION * JULIAN DAY	GMT HR.-MIN.	GMT SEC.	LINE NO. **	SHOT POINT	MEDIA/SPEC. CODE 3 LETT'S.	ARCHIVE NO. DATA/EQUIP. CODE 4 LETTERS	ARCHIVE NO. ROLL OR REEL NO. 4 LET./No. *	PUT 'X' IN COR. BOX S/E OF ROLL, REEL STRT	S/E OF ROLL, REEL END	DATA/SYST RECORDING ON	DATA/SYST RECORDING OFF	COMMENTS	COURSE	SPEED	SYSTEM 1: GRAVITY REC. SCALE / SAMPLE RATE	SYSTEM 1: GRAVITY DIGITAL / ANALOG	SYSTEM 2: MAGNETICS REC. SCALE / SAMPLE RATE	SYSTEM 2: MAGNETICS MSTR. READING / SLAVE READING
	250	2145		116		PAP	GRAD	2		X			END Roll 2 Gradiometer						
	250	2202		116		"	"	3	X				Start Roll 3 Gradiometer						
	253	0246		123		"	"	3		X			End Roll 3 Gradiometer						
	253	0249		123		PAP	GRAD	4	X				Start Roll 4 Gradiometer						
	253	0500		123									Routine	132	8.2		12743.8 12747.7		50790 50789
	253	0600		123										133	7.8		12743.5 12748.0		50767 50771
	253	0700		123										133	7.9		12733.5 12737.0		50703 50710
		0800												127	7.7		12729.8 12729.9		50652 50650
		0900												125	7.8		12721.1 12721.8		50682 50687
		1000												128	8.4		12722.3 12724.6		50514 50519
		1100												130	8.2		12735.8 12739.9		50468 50476
		1200												129	9.0		12734.4 12736.5		50352 50353
		1300		124										232	8.3		12783.3 12774.3		50461 50472
		1400		125										302	8.4		12792.0 12788.0		50580 50576
		1500		125										299	9.3		12792.7 12781.8		50686 50692
	1-3	5-8	9,10	12-15	16-19	21-23	25-28	29-32	37	38	39	40							

* PLEASE RIGHT-JUSTIFY THESE ENTRIES

** DO NOT ENTER ST/END OF LINE ON THIS FORM (FOR KEYPUNCHING)

U.S.G.S. GEOPOTENTIAL SENSOR LOG:

LEG 4 EQUIP. TYPE Gradiometer/Gravity PAGE 15 OF _____

LOCATOR F4 (I.D.) - 86 (YR.) - BS (AREA) (COL. 73-80) TOW DIST./DEPTH: SOURCE _____ RECEIVER _____ SHIP Farnella

RECORDER TYPE/NO. _____ CHIEF SCIENTIST Cooper/Kenyon

PUNCH FLAG	TIME & POSITION * JULIAN DAY	GMT HR.-MIN.	GMT SEC.	LINE NO. **	SHOT POINT	ARCHIVE NO. MEDIA/SPEC. CODE 3 LETT'S.	DATA/EQUIP. CODE 4 LETTERS	ROLL OR REEL NO. 4 LET./No. *	PUT 'X' IN COR. BOX S/E OF ROLL, REEL STRT	END	DATA/SYST RECORDING ON	OFF	COMMENTS	COURSE	SPEED	SYSTEM 1: GRAVITY REC. SCALE SAMPLE RATE	SYSTEM 1: GRAVITY DIGITAL ANALOG	SYSTEM 2: MAGNETICS REC. SCALE SAMPLE RATE	SYSTEM 2: MAGNETICS MSTR. READING SLAVE READING
✓	253	1600		125										300	7.3		12782.7 12764.2		50584 50584
✓	253	1700		125									Routine	293	8.2	G ST	12772 12759		50636 50638
✓		1800		125									"	299	8.2		12767.0 12756.3		50620 50617
✓		1900		125									"	302	8.3		12778.8 12764.9		50549 50551
✓		2000		125									"	298	7.8		12790.8 12781.9		50571 50576
✓		2100											"	297	7.3		12793.8 12777.2		50483 50482
✓		2200											"	301	7.5		12808.3 12792.3		50475 50476
✓		2300											"	300	8.3		12819.4 12804.1		50596 50594
✓	254	0000											"	299	8.2		12819.8 12799.2		50766 50770
		0100											"	297	9.1		12814.4 12794.5		51041 51041
		0200											"	297	8.1		12795.6 12771.8		50979 50979
		0300											"	297	8.4		12788.0 12763.7		50941 50942
		0400												297	7.9		12802.8 12783.7		50849 50851
		0500												297	8.0		12803.4 12798.7		50747 50748
		0600												296	8.2		12817.2 12813.5		50734 50738
	1-3	5-8	9,10	12-15	16-19	21-23	25-28	29-32	37	38	39	40							

* PLEASE RIGHT-JUSTIFY THESE ENTRIES

** DO NOT ENTER ST/END OF LINE ON THIS FORM (FOR KEYPUNCHING)

U.S.G.S. GEOPOTENTIAL SENSOR LOG:

LEG 4 EQUIP. TYPE GRADIOMETER / GRAVITY PAGE 16 OF _____

LOCATOR F4 - 86 - BS (COL. 73-80)
I.D. YR. AREA

TOW DIST./DEPTH: SOURCE _____ RECEIVER _____ SHIP FARNELLA

RECORDER TYPE/NO. _____ CHIEF SCIENTIST COOPER / KENYON

PUNCH FLAG	TIME & POSITION * JULIAN DAY	GMT HR.-MIN.	GMT SEC.	LINE NO. **	SHOT POINT	ARCHIVE NO. MEDIA/SPEC. CODE 3 LETT'S.	DATA/EQUIP. CODE 4 LETTERS	ROLL OR REEL NO. 4 LET./No. *	PUT 'X' IN COR. BOX S/E OF ROLL, REEL STRT	END	DATA/SYST RECORDING ON	OFF	COMMENTS	COURSE	SPEED	SYSTEM 1: GRAVITY REC. SCALE / SAMPLE RATE	SYSTEM 1: GRAVITY DIGITAL / ANALOG	SYSTEM 2: MAGNETICS REC. SCALE / SAMPLE RATE	SYSTEM 2: MAGNETICS MSTR. READING / SLAVE READING
	254	07.00		1,25									Routine	296	8.4		12819.8 12807.0		50747 50750
		08.00		126									"	237	7.4		12813.3 12782.3		50692 50694
		09.00		126									"	238	8.1		12812.8 12775.3		50728 50726
		10.00		127									"	122	9.3		12742.9 12716.9		50730 50734
		11.00											"	119	8.1		12749.7 12743.9		50661 50665
		12.00											"	118	7.7		12747.7 12744.6		50565 50570
		13.00											"	120	7.6		12745.2 12742.0		50552 50559
		14.00											"	122	8.2		12741.4 12738.5		50503 50506
		15.00											"	125	7.7		12730.3 12726.8		50665 50666
		16.00		127									"	117	8.2		12719.3 12717.2		50940 50939
		17.00											"	114	8.4		12720.3 12721.5		50913 50917
		18.00											"	120	8.5		12730.2 12731.2		50447 50454
✓		18.02		127		MAG GRVS		4		X			End TAPE #4						
✓		18.05		127		MAG GRVS		5	X				Start TAPE #5						
		19.00		127										121	7.3		12732.0 12733.8		50311 50318
	1-3	5-8	9,10	12-15	16-19	21-23	25-28	29-32	37	38	39	40							

* PLEASE RIGHT-JUSTIFY THESE ENTRIES

** DO NOT ENTER ST/END OF LINE ON THIS FORM (FOR KEYPUNCHING)

U.S.G.S. GEOPOTENTIAL SENSOR LOG:

LEG 4 EQUIP. TYPE GRADIO Meter/Gravity PAGE 17 OF

LOCATOR F4 (I.D.) - 80 (YR.) - BS (AREA) (COL. 73-80)

TOW DIST./DEPTH: SOURCE RECEIVER SHIP FARNELLA

RECORDER TYPE/NO. CHIEF SCIENTIST Cooper/Kenyon

PUNCH FLAG	TIME & POSITION * JULIAN DAY	GMT HR.-MIN.	GMT SEC.	LINE NO. **	SHOT POINT	ARCHIVE NO. MEDIA/SPEC. CODE 3 LETT'S.	DATA/EQUIP. CODE 4 LETTERS	ROLL OR REEL NO. 4 LET./No. *	PUT 'X' IN COR. BOX S/E OF ROLL, REEL STRT	END	DATA/SYST RECORDING ON	OFF	COMMENTS	COURSE	SPEED	SYSTEM 1: GRAVITY REC. SCALE / SAMPLE RATE	SYSTEM 1: GRAVITY DIGITAL / ANALOG	SYSTEM 2: MAGNETICS REC. SCALE / SAMPLE RATE	SYSTEM 2: MAGNETICS MSTR. READING / SLAVE READING
	254	2000		127									Routine	116	8.7		12720.5 12719.4		50334 50342
		2100		"									"	115	7.8		12721.0 12717.3		50386 50383
		2200		"									"	113	7.2		12715.8 12712.1		50527 50530
	254	2300		127									"	117	8.2		12709.4 12712.7		50435 50441
	255	0000		127									"	119	7.8		12702.0 12704.2		50409 50408
		0100		127									"	123	8.3		12692.7 12695.0		50512 50518
		0200		127									"	122	8.6		12693.5 12697.8		50515 50518
		0300		127									"	121	8.6		12709.7 12709.1		50575 50577
✓	255	0416		128		PAP	GRAD	4		X			EOR 4 Gradiometer						
✓	255	0418		128		PAP	GRAD	5	X				SOR 5 Gradiometer						
		0420		128															50464 50475
✓		0427				PAP	GRVS	4		X			EOR 4 Gravity						
✓		0428		128		PAP	GRVS	5	X				SOR 5 Gravity						
		0431															12769.8 12775.8		
	255	0500		128									ROUTINE	240	8.4		12765.4 12760.6		50608 50607
	1-3	5-8	9,10	12-15	16-19	21-23	25-28	29-32	37	38	39	40							

* PLEASE RIGHT-JUSTIFY THESE ENTRIES

** DO NOT ENTER ST/END OF LINE ON THIS FORM (FOR KEYPUNCHING)

U.S.G.S. GEOPOTENTIAL SENSOR LOG:

LEG 4 EQUIP. TYPE GRADIOMETER/GRAVITY PAGE 18 OF _____

LOCATOR F4 (I.D.) - 86 (YR.) - BS (AREA) (COL. 73-80) TOW DIST./DEPTH: SOURCE _____ RECEIVER _____ SHIP FARNELLA

RECORDER TYPE/NO. _____ CHIEF SCIENTIST COOPER/KENYON

PUNCH FLAG	TIME & POSITION * JULIAN DAY	GMT HR.-MIN.	GMT SEC.	LINE NO. **	SHOT POINT	ARCHIVE NO. MEDIA/SPEC. CODE 3 LETT'S.	DATA/EQUIP. CODE 4 LETTERS	ROLL OR REEL NO. 4 LET./No. *	PUT 'X' IN COR. BOX S/E OF ROLL, REEL STRT	END	DATA/SYST RECORDING ON	OFF	COMMENTS	COURSE	SPEED	SYSTEM 1: GRAVITY REC. SCALE / SAMPLE RATE	SYSTEM 1: GRAVITY DIGITAL / ANALOG	SYSTEM 2: MAGNETICS REC. SCALE / SAMPLE RATE	SYSTEM 2: MAGNETICS MSTR. READING / SLAVE READING
	255	06.00.0		1.29									Routine	295	8.5		12762.3 12761.4		50432 50432
	255	07.00		1.29										293	8.3		12763.3 12762.8		50492 50492
		08.00												290	8.2		12771.9 12770.9		50471 50477
		09.00												288	8.1		12786.7 12788.4		50594 50600
		10.00												291	9.1		12795.0 12797.6		50417 50419
		11.00												292	8.9		12799.1 12804.1		50257 50256
		12.00												296	9.0		12783.9 12785.1		50150 50150
		13.00												297	9.0		12780.6 12786.4		50164 50165
		14.00												298	8.5		12800.6 12803.7		50313 50312
		15.00												297	8.7		12802.7 12802.1		50408 50405
		16.00		1.29									CORRECT GRAVITY TIME RESET CLOCK 1 MIN FAST	296	7.9		12805.8 12807.5		50573 50575
		17.00												295	8.3		12787.0 12788.9		50453 50453
		18.03											Routine	292	8.3		12793.9 12799.2		50420 50421
		19.00												294	8.5		12806.8 12811.1		50396 50397
	255	20.00		1.29										283	7.4		12804.7 12810.5		50439 50436
	1-3	5-8	9,10	12-15	16-19	21-23	25-28	29-32	37	38	39	40							

* PLEASE RIGHT-JUSTIFY THESE ENTRIES

** DO NOT ENTER ST/END OF LINE ON THIS FORM (FOR KEYPUNCHING)

U.S.G.S. GEOPOTENTIAL SENSOR LOG: LEG 4 EQUIP. TYPE GRADiometer/GRAVityMeter PAGE 19 OF _____

LOCATOR F4 – 86 – BS (COL. 73-80) I.D. – YR. – AREA

TOW DIST./DEPTH: SOURCE _____ RECEIVER _____ SHIP FARNELLA

RECORDER TYPE/NO. _____ CHIEF SCIENTIST Cooper/Kenyon

PUNCH FLAG	TIME & POSITION * JULIAN DAY	GMT HR.-MIN.	GMT SEC.	LINE NO. **	SHOT POINT	MEDIA/SPEC. CODE 3 LETT'S.	ARCHIVE NO. DATA/EQUIP. CODE 4 LETTERS	ARCHIVE NO. ROLL OR REEL NO. 4 LET./No. *	PUT 'X' IN COR. BOX S/E OF ROLL, REEL STRT	S/E OF ROLL, REEL END	DATA/SYST RECORDING ON	DATA/SYST RECORDING OFF	COMMENTS	COURSE	SPEED	SYSTEM 1: GRAVITY REC. SCALE SAMPLE RATE	SYSTEM 1: GRAVITY DIGITAL ANALOG	SYSTEM 2: MAGNETICS REC. SCALE SAMPLE RATE	SYSTEM 2: MAGNETICS MSTR. READING SLAVE READING
	255	2100		129										293	8.7		12803.9 12811.8	~~12803.9~~ ~~12811.8~~	50402 50406
	255	2250		129										295	8.1		12796.4 12795.5		50410 50409
	255	2214		129									EOL						
	255	2300		130										229	7.8		12793.4 12781.0		50419 50416
	256	0000		130										218	7.1		12794.3 12776.4		50371 50374
		0100		131										112	7.7		12737.8 12728.0		50373 50374
	256	0200		131										113	8.6		12730.2 12736.1		50280 50279
	256	0300		131										113	7.2		12729.2 12716.1		50281 50281
	256	0400		131										115	6.8		12713.5 12705.8		50233 50236
	256	0500		131										114	8.5		12708.4 12703.0		50288 50292
	256	0600		131										117	7.8		12717.2 12712.2		50349 50350
	256	0700		131										119	7.8		12727.9 12722.4		50510 50514
	(	0800												119	7.8		12739.6 12734.8		50451 50457
		0900												118	7.4		12743.0 12737.7		50503 50505
	)	1000												113	7.0		12742.7 12735.1		50400 50403
	1-3	5-8	9,10	12-15	16-19	21-23	25-28	29-32	37	38	39	40							

* PLEASE RIGHT-JUSTIFY THESE ENTRIES

** DO NOT ENTER ST/END OF LINE ON THIS FORM (FOR KEYPUNCHING)

U.S.G.S. GEOPOTENTIAL SENSOR LOG: LEG 4 EQUIP. TYPE Gradiometer/Gravity PAGE 20 OF _____

LOCATOR F4 (I.D.) - 86 (YR.) - BS (AREA) (COL. 73-80) TOW DIST./DEPTH: SOURCE _____ RECEIVER _____ SHIP Farnella

RECORDER TYPE/NO. _____ CHIEF SCIENTIST Cooper/Kenyon

PUNCH FLAG	TIME & POSITION * JULIAN DAY	GMT HR.-MIN.	GMT SEC.	LINE NO. **	SHOT POINT	ARCHIVE NO. MEDIA/SPEC. CODE 3 LETT'S.	DATA/EQUIP. CODE 4 LETTERS	ROLL OR REEL NO. 4 LET./No. *	PUT 'X' IN COR. BOX S/E OF ROLL, REEL STRT	S/E OF ROLL, REEL END	DATA/SYST RECORDING ON	DATA/SYST RECORDING OFF	COMMENTS	COURSE	SPEED	SYSTEM 1: GRAVITY REC. SCALE SAMPLE RATE	SYSTEM 1: GRAVITY DIGITAL ANALOG	SYSTEM 2: MAGNETICS REC. SCALE SAMPLE RATE	SYSTEM 2: MAGNETICS MSTR. READING SLAVE READING
	256	1100		131									Routine	114	9.0		12731.0 12715.7		50264 50212
		1200												117	8.4		12702.1 12690.4		50064 50071
		1300												116	8.7		12695.9 12681.6		50138 50131
		1400												116	8.4		12702.9 12687.3		50152 50156
		1500											LAST 24?HR JD WORKG	119	9.1		12699.1 12689.3		50311 50316
		1600		131									RESET Gravity clock TO CORRECT JD WAS	116	8.2		12689.4 12682.4		50296 50300
		1700		131									LOGGING ON TAPE JD 247 Corrected TO JD 256	118	7.5		12680.9 12673.8		50193 50197
		1800		132									SOL 132	246	8.3		12 ? 12 ?		501 ? 501 ?
		1900												246	8.3		12708.1 12704.7		50179 50184
✓		1902				MAG	GRAS VS	5		X			MAG TAPE #5						
✓		1904				MAG	GRAS VS	6	X				" " #6						
		2000		132									132 EOL 2013						
		2100		133										293	8.3		12703.1 12700.8		50369 50364
		2200		133										297	8.5		12713.9 12714.5		50320/21
		2300		133										296	7.5		12717.5 12719.1		50326 50331
	1-3	5-8	9,10	12-15	16-19	21-23	25-28	29-32	37	38	39	40							

* PLEASE RIGHT-JUSTIFY THESE ENTRIES

** DO NOT ENTER ST/END OF LINE ON THIS FORM (FOR KEYPUNCHING)

U.S.G.S. GEOPOTENTIAL SENSOR LOG:

LEG 4 EQUIP. TYPE GRADIOMETER / GRAVITY PAGE 21 OF _____

LOCATOR F4 - 86 - BS (COL. 73-80)
I.D. YR. AREA

TOW DIST./DEPTH: SOURCE _____ RECEIVER _____ SHIP FARNELLA

RECORDER TYPE/NO. _____ CHIEF SCIENTIST COOPER / KENYON

PUNCH FLAG	TIME & POSITION * JULIAN DAY	GMT HR.-MIN.	GMT SEC.	LINE NO. **	SHOT POINT	ARCHIVE NO. MEDIA/SPEC. CODE 3 LETT'S.	DATA/EQUIP. CODE 4 LETTERS	ROLL OR REEL NO. 4 LET./No. *	PUT 'X' IN COR. BOX S/E OF ROLL, REEL STRT	END	DATA/SYST RECORDING ON	OFF	COMMENTS	COURSE	SPEED	SYSTEM 1: GRAVITY REC. SCALE / SAMPLE RATE	SYSTEM 1: GRAVITY DIGITAL / ANALOG	SYSTEM 2: MAGNETICS REC. SCALE / SAMPLE RATE	SYSTEM 2: MAGNETICS MSTR. READING / SLAVE READING
	257	0000		133									Routine	290	8.2		12743.7 12744.8		50235 50233
		0100		133										288	8.2		12759.6 12759.1		50270 50271
		0200		133										288	7.9		12775.6 12773.5		50335 50336
		0300		133										290	7.5		12782.9 12781.9		50438 50442
		0400		133										293	8.3		12786.1 12784.8		50131 50133
		0500		133										293	8.5		12785.4 12786.2		50035 50036
✓		0503		133		PAP	GRVS	5		X			END ROLL 5 Gravity						
✓		0505		133		PAP	GRVS	6	X				START ROLL 6 Gravity						
✓		0513		133		PAP	GRAD	5		X			END ROLL 5 Gradiometer						
✓		0515		133		PAP	GRAD	6	X				START ROLL 6 Gradiometer						
		0600		133									Routine	293	8.0		12768.8 12766.3		50155 50152
		0700		133										295	7.9		12746.1 12742.4		50096 50095
		0800		(										294	7.8		12753.1 12748.3		50149 50146
		0904		(													12771.0 12763.1		50175 50178
		1000		(										294	8.3		12781.8 12768.8		50207 50209
	1-3	5-8	9,10	12-15	16-19	21-23	25-28	29-32	37	38	39	40							

* PLEASE RIGHT-JUSTIFY THESE ENTRIES

** DO NOT ENTER ST/END OF LINE ON THIS FORM (FOR KEYPUNCHING)

U.S.G.S. GEOPOTENTIAL SENSOR LOG:

LEG 4 EQUIP. TYPE Gradiometer/Gravity PAGE 22 OF _____

LOCATOR F4 (I.D.) - 86 (YR.) - BS (AREA) (COL. 73-80)

TOW DIST./DEPTH: SOURCE _____ RECEIVER _____ SHIP _____

RECORDER TYPE/NO. _____ CHIEF SCIENTIST _____

PUNCH FLAG	TIME & POSITION * JULIAN DAY	GMT HR.-MIN.	GMT SEC.	LINE NO. **	SHOT POINT	MEDIA/SPEC. CODE 3 LETT'S.	ARCHIVE NO. DATA/EQUIP. CODE 4 LETTERS	ARCHIVE NO. ROLL OR REEL NO. 4 LET./No. *	PUT 'X' IN COR. BOX S/E OF ROLL, REEL STRT	S/E OF ROLL, REEL END	DATA/SYST RECORDING ON	DATA/SYST RECORDING OFF	COMMENTS	COURSE	SPEED	SYSTEM 1: GRAVITY REC. SCALE / SAMPLE RATE	SYSTEM 1: GRAVITY DIGITAL / ANALOG	SYSTEM 2: MAGNETICS REC. SCALE / SAMPLE RATE	SYSTEM 2: MAGNETICS MSTR. READING / SLAVE READING
	257	1,1,0,0		133									Routine	295	7.6		12791.6 12769.0		50237 50239
	257	1,2,0,0		133										297	8.9		12796.0 12781.3		50224 50222
		1,3,0,0		134										214	8.2		12782.6 12757.6		50197 50194
		1,4,0,0		134										210	8.9		12776.4 12753.5		50138 50147
		1,5,0,0		135										116	8.1		12714.2 12723.0		50082 50085
	257	1,6,0,0		135										116	8.7		12708.0 12708.2		50090 50089
		1,7,0,0												112	8.7		12695.1 12686.7		50141 50142
		1,8,0,0												113	8.2		12687.0 12686.3		50075 50083
		1,9,0,0												114	8.4		12676.6 12679.3		49919 49924
	257	2,0,0,0		135										109	8.5		12663.0 12665.9		49882 49882
		2,1,0,0												117	7.6		12664.9 12669.4		50003 50003
		2,2,0,0												111	7.7		12682.8 12690.7		50186 50186
		2,3,0,0												111	8.0		12695.1 12700.8		50412 50417
	258	0,0,0,0		135										113	8.1		12691.6 12694.7		50314 50327
		0,1,0,0		135										118	8.5		12689.1 12692.7		50167 50174
	1-3	5-8	9,10	12-15	16-19	21-23	25-28	29-32	37	38	39	40							

* PLEASE RIGHT-JUSTIFY THESE ENTRIES

** DO NOT ENTER ST/END OF LINE ON THIS FORM (FOR KEYPUNCHING)

U.S.G.S. GEOPOTENTIAL SENSOR LOG: LEG 4 EQUIP. TYPE GRADIOMETER / GRAVITY PAGE 23A OF _____

LOCATOR F4 - 86 - BS (COL. 73-80) (I.D. - YR. - AREA) TOW DIST./DEPTH: SOURCE _____ RECEIVER _____ SHIP FARNELLA

RECORDER TYPE/NO. _____ CHIEF SCIENTIST Cooper / Kenyon

PUNCH FLAG	TIME & POSITION * JULIAN DAY	GMT HR.-MIN.	GMT SEC.	LINE NO. **	SHOT POINT	MEDIA/SPEC. CODE 3 LETT'S.	ARCHIVE NO. DATA/EQUIP. CODE 4 LETTERS	ARCHIVE NO. ROLL OR REEL NO. 4 LET./No. *	PUT 'X' IN COR. BOX S/E OF ROLL, REEL STRT	PUT 'X' IN COR. BOX S/E OF ROLL, REEL END	PUT 'X' IN COR. BOX DATA/SYST RECORDING ON	PUT 'X' IN COR. BOX DATA/SYST RECORDING OFF	COMMENTS	COURSE	SPEED	SYSTEM 1: GRAVITY REC. SCALE SAMPLE RATE	SYSTEM 1: GRAVITY DIGITAL ANALOG	SYSTEM 2: MAGNETICS REC. SCALE SAMPLE RATE	SYSTEM 2: MAGNETICS MSTR. READING SLAVE READING
	258	02.00		135									Routine	116	8.0		12677.8 12679.4		50132 50128
		03.00		135										117	9.0		12668.1 12670.5		50128 50132
		04.00		135										117	7.8		12659.3 12661.9		50124 50125
		05.00		135										116	8.2		12654.4 12655.6		50132 50132
		06.16		136										246	—		12717.0 12720.8		50082 50084
		07.00		136										247	8.0		12720.9 12710.2		50062 50066
		08.00		136										243	8.0		12712.7 12699.2		50058 50063
		09.00		137										297	8.9		12703.8 12693.3		50043 50042
		10.00												292	8.2		12711.4 12701.9		49971 49978
		11.00												290	7.7		12714.4 12707.2		49966 49966
		12.00												290	8.6		12723.7 12713.7		50011 50014
		13.00												294	8.5		12734.9 12722.1		49940 49943
		14.00												295	8.3		12738.3 12732.5		49971 49970
		15.00												295	8.5		12745.3 12738.6		49770 49778
	258	16.00		137										295	8.2		12749 12715.3		49753 49753
	1-3	5-8	9,10	12-15	16-19	21-23	25-28	29-32	37	38	39	40							

* PLEASE RIGHT-JUSTIFY THESE ENTRIES

** DO NOT ENTER ST/END OF LINE ON THIS FORM (FOR KEYPUNCHING)

☆GPO 695-826

U.S.G.S. GEOPOTENTIAL SENSOR LOG:

LEG 4 EQUIP. TYPE GRADIOMETER/GRAVITY PAGE 24 OF _____

LOCATOR F4 - 86 - BS (COL. 73-80) I.D. - YR. - AREA

TOW DIST./DEPTH: SOURCE _____ RECEIVER _____ SHIP FARNELLA

RECORDER TYPE/NO. _____ CHIEF SCIENTIST Cooper/Kenyon

ARCHIVE NO.

PUNCH FLAG	TIME & POSITION * JULIAN DAY	GMT HR.-MIN.	GMT SEC.	LINE NO. **	SHOT POINT	MEDIA/SPEC. CODE 3 LETT'S.	DATA/EQUIP. CODE 4 LETTERS	ROLL OR REEL NO. 4 LET./No. *	PUT 'X' IN COR. BOX S/E OF ROLL, REEL STRT	END	DATA/SYST RECORDING ON	OFF	COMMENTS	COURSE	SPEED	SYSTEM 1: GRAVITY REC. SCALE SAMPLE RATE	SYSTEM 1: GRAVITY DIGITAL ANALOG	SYSTEM 2: MAGNETICS REC. SCALE SAMPLE RATE	SYSTEM 2: MAGNETICS MSTR. READING SLAVE READING
	259	0300		139									Routine	113	8.6		12675.2 12677.4		50778 50786
✓	259	0326		139		MAG	GRVS	7		X									
✓	259	0326		139		MAG	GRAD	4		X									
✓	259	0345		139		MAG	GRVS	8	X										
✓	259	0340		139		MAG	GRAD	5	X										
	259	0400		139									POWER FAILURE				—		49718 49726 ???
	259	0500		139									Routine				12670.6 12662.7		49650 49651
✓	259	0505		139		PAP	GRAD	6		X			END ROLL 6 Gradiometer						
✓	259	0506		139		PAP	GRAD	7	X				START ROLL 7 Gradiometer						
	259	0600		139									Routine				12662.6 12653.2		49752 49755
✓	259	0604		139		PAP	GRVS	6		X			END ROLL 6 Gravity						
✓	259	0605		139		PAP	GRVS	7	X				START ROLL 7 Gravity	113	—				
	259	0700		139									Routine	113	8.5		12647.2 12647.1		49700 49708
		0800												112	7.8		12634.1 12637.4		49741 49742
		0900												109	7.9		12618.4 12613.0		49793 49797
	1-3	5-8	9,10	12-15	16-19	21-23	25-28	29-32	37	38	39	40							

* PLEASE RIGHT-JUSTIFY THESE ENTRIES

** DO NOT ENTER ST/END OF LINE ON THIS FORM (FOR KEYPUNCHING)

☆GPO 695-826

U.S.G.S. GEOPOTENTIAL SENSOR LOG:

LEG 4 EQUIP. TYPE Gradiometer / Gravity PAGE 25 OF _____

LOCATOR F4 - 86 - BS (COL. 73-80) I.D. - YR. - AREA

TOW DIST./DEPTH: SOURCE _____ RECEIVER _____ SHIP Farnella

RECORDER TYPE/NO. _____ CHIEF SCIENTIST Cooper / Kenyon

ARCHIVE NO.

PUNCH FLAG	TIME & POSITION * JULIAN DAY	GMT HR.-MIN.	GMT SEC.	LINE NO. **	SHOT POINT	MEDIA/SPEC. CODE 3 LETT'S.	DATA/EQUIP. CODE 4 LETTERS	ROLL OR REEL NO. 4 LET./No. *	PUT 'X' IN COR. BOX S/E OF ROLL, REEL STRT	END	DATA/SYST RECORDING ON	OFF	COMMENTS	COURSE	SPEED	SYSTEM 1: GRAVITY REC. SCALE SAMPLE RATE	SYSTEM 1: GRAVITY DIGITAL ANALOG	SYSTEM 2: MAGNETICS REC. SCALE SAMPLE RATE	SYSTEM 2: MAGNETICS MSTR. READING SLAVE READING
	259	1000		139									Routine	113	7.8		12642.0 12643.4		50006 50011
		1100												114	6.8		12647.7 12664.8		50006 50003
		1200												116	6.7		12642.3 12675.0		49946 49959
		1300												116	7.5		12624.0 12625.0		49828 49835
		1400												116	7.4		12616.9 12599.0		49890 49892
		1500												122	6.0		12611.1 12594.1		49932 49935
	259	1600		140										247	8.6		X		49926 49926
		1700												244	7.8		X		49907 49910
		1866											EofLINE 140	244	8.0		X		49874 49875
		1900		141										358	8.0		X		49874 49875
		2000		142										238	7.9		X		49901 49901
		2100												234	7.9		X		49831 49826
		2200		142										237	8.3		X		49724 49721
		2300		142										244	8.7		X		49601 49599
	260	0000		142										245	9.0		X		49517 49521
	1-3	5-8	9,10	12-15	16-19	21-23	25-28	29-32	37	38	39	40							

* PLEASE RIGHT-JUSTIFY THESE ENTRIES

** DO NOT ENTER ST/END OF LINE ON THIS FORM (FOR KEYPUNCHING)

☆GPO 695-826

U.S.G.S. GEOPOTENTIAL SENSOR LOG:

LEG _____ EQUIP. TYPE Gradiometer / Gravity PAGE 26 OF _____

LOCATOR FA - 86 - BS (COL. 73-80)
I.D. YR. AREA

TOW DIST./DEPTH: SOURCE _____ RECEIVER _____ SHIP FARNELLA

RECORDER TYPE/NO. _____ CHIEF SCIENTIST COOPER / KENYON

PUNCH FLAG	TIME & POSITION * JULIAN DAY	GMT HR.-MIN.	GMT SEC.	LINE NO. **	SHOT POINT	MEDIA/SPEC. CODE 3 LETT'S.	DATA/EQUIP. CODE 4 LETTERS	ARCHIVE NO. ROLL OR REEL NO. 4 LET./No. *	PUT 'X' IN COR. BOX S/E OF ROLL, REEL STRT	S/E OF ROLL, REEL END	DATA/SYST RECORDING ON	DATA/SYST RECORDING OFF	COMMENTS	COURSE	SPEED	SYSTEM 1: GRAVITY REC. SCALE / SAMPLE RATE	SYSTEM 1: GRAVITY DIGITAL / ANALOG	SYSTEM 2: MAGNETICS REC. SCALE / SAMPLE RATE	SYSTEM 2: MAGNETICS MSTR. READING / SLAVE READING
	260	0100		142									Routine	244	8.5		X		49458 49464
	260	0200		142										244	8.4		X		49468 49474
	260	0300		142										244	7.2		X		49423 49423
	260	0400		142										236	8.0		X		49478 49474
	260	0500		142										233	7.0		X		49403 49401
	260	0600		142										237	6.8		X		49427 49428
	260	0700		142										241	7.8		X		49415 49423
		0800												240	8.2		12621.0 12615.0		49040 49034
		0900												240	7.5		12618.8 12615.0		49200 49196
		1002												240	8.4		12630.4 12630.2		49194 49198
		1100												240	8.1		12637.1 12635.7		49146 49154
		1200												240	8.6		12623.8 12626.5		49005 49004
		1301												240	8.4		12609.4 12611.9		49108 49111
		1415		143										348	10.5		12565.7 12548.9		49042 49051
		1500		143										344	9.0		12560.2 12557.8		48739 48741
	1-3	5-8	9,10	12-15	16-19	21-23	25-28	29-32	37	38	39	40							

* PLEASE RIGHT-JUSTIFY THESE ENTRIES

** DO NOT ENTER ST/END OF LINE ON THIS FORM (FOR KEYPUNCHING)

U.S.G.S. GEOPOTENTIAL SENSOR LOG:

LEG 4 EQUIP. TYPE Gradiometer/Gravity PAGE 27 OF _____

LOCATOR F4 (I.D.) - 86 (YR.) - BS (AREA) (COL. 73-80) TOW DIST./DEPTH: SOURCE _____ RECEIVER _____ SHIP Farnella

RECORDER TYPE/NO. _____ CHIEF SCIENTIST Cooper/Kenyon

PUNCH FLAG	TIME & POSITION * JULIAN DAY	GMT HR.-MIN.	GMT SEC.	LINE NO. **	SHOT POINT	ARCHIVE NO. MEDIA/SPEC. CODE 3 LETT'S.	DATA/EQUIP. CODE 4 LETTERS	ROLL OR REEL NO. 4 LET./No. *	PUT 'X' IN COR. BOX S/E OF ROLL, REEL STRT	END	DATA/SYST RECORDING ON	OFF	COMMENTS	COURSE	SPEED	SYSTEM 1: GRAVITY REC. SCALE / SAMPLE RATE	SYSTEM 1: GRAVITY DIGITAL / ANALOG	SYSTEM 2: MAGNETICS REC. SCALE / SAMPLE RATE	SYSTEM 2: MAGNETICS MSTR. READING / SLAVE READING
	260	1600		144									Routine	060	8.5			X	48785 48786
	260	1700												065	8.2				48961 48960
		1800												058	8.4				49188 49195
		1900												064	8.3				48953 48963
		2000												058	7.9				48950 48957
		2100												057	8.1				49029 49035
		2200												057	8.5				48957 48958
/		2300 2304		144		MAG	GRVS	8		X			THIS TAPE #8 Contains Questionable DATA #5 GRAVITYMETER WAS NOT Working properly	057	8.7				49163 49167
/	260	2306		144		MAG	GRVS	9	X					57	8.3				
	261	0000		144										59	7.8				48946 48945
	261	0100		144										061	8.4		12589.4 12592.9		49385 49396
	261	0200		144										063	8.4		12608.4 12615.7		49390 49395
	261	0300		144										062	8.1		12600.6 12606.4		49389 49393
	261	0400		144										061	7.6		12600.1 12603.2		49314 49311
	261	0500		144										058	8.0		126036 125991		49525 49524
	1-3	5-8	9,10	12-15	16-19	21-23	25-28	29-32	37	38	39	40							

* PLEASE RIGHT-JUSTIFY THESE ENTRIES

** DO NOT ENTER ST/END OF LINE ON THIS FORM (FOR KEYPUNCHING)

MDIG 1/77

U.S.G.S. GEOPOTENTIAL SENSOR LOG: LEG 4 EQUIP. TYPE Gradiometer / Gravity PAGE 28 OF _____

LOCATOR F4 - 86 - BS (ID - YR - AREA) (COL. 73-80) TOW DIST./DEPTH: SOURCE _____ RECEIVER _____ SHIP Farnella

RECORDER TYPE/NO. _____ CHIEF SCIENTIST _____

PUNCH FLAG	TIME & POSITION * JULIAN DAY	GMT HR.-MIN.	GMT SEC.	LINE NO. **	STA. NO. OR SHOT POINT	ARCHIVE NO. MED/SPEC. CODE 3 LETT'S	ARCHIVE NO. DATA/EQUIP. CODE 4 LETTERS	ARCHIVE NO. ROLL, REEL OR SEQUENCE NO. 5 LET/NO. *	'X' IN ONE BOX ONLY S/E OF ROLL, REEL STRT	S/E OF ROLL, REEL END	DATA/SYST RECORDING ON	DATA/SYST RECORDING OFF	COMMENTS	COURSE	SPEED	SYSTEM 1: GRAVITY REC. SCALE SAMPLE RATE	SYSTEM 1: GRAVITY DIGITAL ANALOG	SYSTEM 2: MAGNETICS REC. SCALE SAMPLE RATE	SYSTEM 2: MAGNETICS MSTR. READING SLAVE READING
	261	0600		144									Routine	051	7.8		12629.3 12637.4		49928 49933
✓	261	0607		144		PAP	GRVS	7		X			END ROLL 7 Gravity						
✓	261	0609		144		PAP	GRVS	8	X				START ROLL 8 GRAVITY						
✓	261	0615		144		PAP	GRAD	7		X			END ROLL 7 Gradiometer						
✓	261	0616		144		PAP	GRAD	8	X				START ROLL 8 GRADIOMETER						
		0800		145									Routine	241	8.1		12700.0 12693.3		49992 49997
		0900		145										246	7.8		12676.6 12668.8		49720 49727
		1000		146										297	9.2		12677.2 12674.6		49652 49656
		1103												297	8.6		12691.8 12670.7		49551 49559
		1200												292	7.6		12702.3 12698.7		49658 49655
		1300												292	9.9		12712.4 12705.9		49673 49680
		1400												292	6.7		12707.0 12713.3	Switch	49565 49573
		1500												116	8.7		12648.0 12634.3		49557 49567
		1600												292	7.7		12774.1 12728.0		49549 49567
	261	1700		146									Routine	285	8.7		12716.6 12711.3		49619 49624
	1-3	5-8	9, 10	12-15	16-19	21-23	25-28	29-33	37	38	39	40							

* PLEASE RIGHT-JUSTIFY THESE ENTRIES

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MDIG 1/77

U.S.G.S. GEOPOTENTIAL SENSOR LOG:

LEG 4 EQUIP. TYPE GRADiometer / GRAvity PAGE 29 OF _____

TOW DIST./DEPTH: SOURCE _____ / RECEIVER _____ SHIP FARNELLA

LOCATOR T-4 - 86 - BS (ID. - YR. - AREA) (COL. 73-80) RECORDER TYPE/NO. _____ CHIEF SCIENTIST COOPER / KENYON

PUNCH FLAG	TIME & POSITION * JULIAN DAY	GMT HR.-MIN.	GMT SEC.	LINE NO.	STA. NO. OR SHOT POINT	MED/SPEC. CODE 3 LETT'S	ARCHIVE NO. DATA/EQUIP. CODE 4 LETTERS	ARCHIVE NO. ROLL, REEL OR SEQUENCE NO. 5 LET/NO.	'X' IN ONE BOX ONLY S/E OF ROLL, REEL STRT	S/E OF ROLL, REEL END	DATA/SYST RECORDING ON	DATA/SYST RECORDING OFF	COMMENTS	COURSE	SPEED	SYSTEM 1: GRAVITY REC. SCALE / SAMPLE RATE	SYSTEM 1: GRAVITY DIGITAL / ANALOG	SYSTEM 2: MAGNETICS REC. SCALE / SAMPLE RATE	SYSTEM 2: MAGNETICS MSTR. READING / SLAVE READING
	261	18.00		146									Routine	293	8.2		12717.5 12713.6		49664 49668
		19.00												295	7.8		12715.9 12711.1		49677 49682
		20.00		147										221	8.0		12704.8 12699.5		49678 49683
	261	21.00		147										221	8.0		X		X
	261	22.00		148										112	8.9		12627.4 12611.0		49547 49554
		23.00		148										110	8.5		12620.6 12620.7		49477 49480
	262	0.000		148										114	8.9		12623.8 12625.3		49510 49514
	262	01.00		148										114	7.5		12626.2 12627.9		49516 49521
	262	0200		148										116	7.6		12621.5 12623.4		49537 49542
	262	03.00		148										116	8.5		12611.5 12613.1		49468 49467
	262	04.00		148										119	9.1		12597.4 12597.9		49479 49482
	262	05.00		148										117	8.4		12589.7 12590.8		49383 49388
	262	06.00		149										242	8.7		12663.9 12686.8		49345 49349
	262	07.00		149										221	8.0		12651.1 12648.7		49368 49368
	262	0800		149										248	8.7		12645.7 12640.8		49105 44114
	1-3	5-8	9, 10	12-15	16-19	21-23	25-28	29-33	37	38	39	40							

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MDIG 1/77

U.S.G.S. GEOPOTENTIAL SENSOR LOG:

LEG _____ EQUIP. TYPE Gradiometer / Gravity PAGE 30 OF _____

TOW DIST./DEPTH: SOURCE _____ RECEIVER _____ SHIP Farnella

LOCATOR F4 - 86 - B5 (ID. - YR. - AREA) (COL. 73-80) ARCHIVE NO.

RECORDER TYPE/NO. _____ CHIEF SCIENTIST _____

PUNCH FLAG	TIME & POSITION * JULIAN DAY	GMT HR.-MIN.	GMT SEC.	LINE NO. **	STA. NO. OR SHOT POINT	MED./SPEC. CODE 3 LETT'S	DATA/EQUIP. CODE 4 LETTERS	ROLL, REEL OR SEQUENCE NO. 5 LET/NO. *	'X' IN ONE BOX ONLY S/E OF ROLL, REEL STRT	S/E OF ROLL, REEL END	DATA/SYST RECORDING ON	DATA/SYST RECORDING OFF	COMMENTS	COURSE	SPEED	SYSTEM 1: GRAVITY REC. SCALE / SAMPLE RATE	SYSTEM 1: GRAVITY DIGITAL / ANALOG	SYSTEM 2: MAGNETICS REC. SCALE / SAMPLE RATE	SYSTEM 2: MAGNETICS MSTR. READING / SLAVE READING
	262	09.00		150									Routine	299	8.9		12646.9 12646.1		49335 49338
		10.00												296	8.7		12645.8 12646.4		49396 49399
		11.00												293	9.0		12657.0 12657.4		49305 49311
		12.00												296	8.1		12665.7 12665.3		49323 49324
		13.00												297	5.9		12671.0 12670.8		49402 49406
		14.02												300	6.7		12677.0 12674.3		49416 49413
		15.00		151										217	8.1		12674.0 12674.6		49480 49482
	262	16.00												219	8.3		12662.8 12663.3		49302 49307
		17.00		152										119	7.7		12595.0 12593.7		49254 49249
		18.00												123	8.7		12582.5 12584.6		49253 49260
		19.00												124	8.4		12569.6 12571.4		49136 49142
		20.00												121	8.2		12563.8 12567.0		49177 49180
		21.00		152										123	8.0		12570.1 12576.5		49172 49182
		22.00		153									SOL 153 2212	224	8.0				
	262	23.00		153										226	7.4		12623.8 12622.2		49047 49049
	1-3	5-8	9, 10	12-15	16-19	21-23	25-28	29-33	37	38	39	40							

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MDIG 1/77

U.S.G.S. GEOPOTENTIAL SENSOR LOG:

LEG 4 EQUIP. TYPE GRADIOMETER / GRAVITY PAGE 31 OF _____

TOW DIST./DEPTH: SOURCE _____ / RECEIVER _____ SHIP FARNELLA

LOCATOR F4 - 86 - BS (ID. - YR. - AREA) (COL. 73-80) ARCHIVE NO. RECORDER TYPE/NO. _____ CHIEF SCIENTIST COOPER / KENYON

PUNCH FLAG	TIME & POSITION * JULIAN DAY	GMT HR.-MIN.	GMT SEC.	LINE NO. **	STA. NO. OR SHOT POINT	MED/SPEC. CODE 3 LETT'S	DATA/EQUIP. CODE 4 LETTERS	ROLL, REEL OR SEQUENCE NO. 5 LET/NO. *	'X' IN ONE BOX ONLY S/E OF ROLL, REEL STRT	S/E OF ROLL, REEL END	DATA/SYST RECORDING ON	DATA/SYST RECORDING OFF	COMMENTS	COURSE	SPEED	SYSTEM 1: GRAVITY REC. SCALE / SAMPLE RATE	SYSTEM 1: GRAVITY DIGITAL / ANALOG	SYSTEM 2: MAGNETICS REC. SCALE / SAMPLE RATE	SYSTEM 2: MAGNETICS MSTR. READING / SLAVE READING
✓	262	23.03		153		MAG	GRVS	9		X			End Tape 9						
✓		2305		153		MAG	GRVS	10	X				Start Tape 10						
	263	0000		153									Routine	258	7.5		12626.6 12623.8		48860 48861
	263	0100		154										309	7.4		12607.8 12599.6		49120 49114
	263	0200		154										307	8.5		12602.7 12594.0		48968 48967
	263	0300		154										307	7.2		12605.9 12602.9		48994 48998
	263	0400		154										305	7.5		12618.6 12618.6		49062 49062
	263	0500		154										302	8.9		12632.8 12631.7		49105 49103
	263	0600		155										217	8.9		12630.9 12633.0		49126 49131
	263	0700		155										219	8.2		12621.9 12624.6		49015 49019
✓	263	0704		155		PAP	GRVS	8		X			End Roll 8 Gravity						
✓	263	0705		155		PAP	GRVS	9	X				Start Roll 9 Gravity						
✓	263	0726		155		PAP	GRAD	8		X			End Roll 8 Gradiometer						
✓	263	0728		156		PAP	GRAD	9	X				Start Roll 9 Gradiometer						
	263	0800		156									Routine	127	9.0		12557.6 12556.0		48972 48977
	1-3	5-8	9, 10	12-15	16-19	21-23	25-28	29-33	37	38	39	40							

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MDIG 1/77

U.S.G.S. GEOPOTENTIAL SENSOR LOG: LEG 4 EQUIP. TYPE Gradiometer / Gravity PAGE 32 OF _____

LOCATOR F4 (ID.) - 86 (YR.) - BS (AREA) (COL. 73-80) TOW DIST./DEPTH: SOURCE _____ RECEIVER _____ SHIP Farnella

RECORDER TYPE/NO. _____ CHIEF SCIENTIST Cooper / Kenyon

PUNCH FLAG	TIME & POSITION * JULIAN DAY	GMT HR.-MIN.	GMT SEC.	LINE NO. **	STA. NO. OR SHOT POINT	MED./SPEC. CODE 3 LETT'S	ARCHIVE NO. DATA/EQUIP. CODE 4 LETTERS	ARCHIVE NO. ROLL, REEL OR SEQUENCE NO. 5 LET/NO. *	'X' IN ONE BOX ONLY S/E OF ROLL, REEL STRT	S/E OF ROLL, REEL END	DATA/SYST RECORDING ON	DATA/SYST RECORDING OFF	COMMENTS	COURSE	SPEED	SYSTEM 1: GRAVITY REC. SCALE SAMPLE RATE	SYSTEM 1: GRAVITY DIGITAL ANALOG	SYSTEM 2: MAGNETICS REC. SCALE SAMPLE RATE	SYSTEM 2: MAGNETICS MSTR. READING SLAVE READING
	263	0900		156									Routine	127	8.0		12538.3 12539.0		48944 48934
		1000		(										127	9.2		12525.6 12527.6		48905 48906
		1100		)										128	8.4		12519.0 12521.4		48950 48952
		1200		157										227	7.5		12575.2 12596.9		48855 48863
		1315		158										258	7.6		12591.9 12592.1		48584 48591
		1400		(										256	7.0		12588.0 12590.2		48584 48580
		1500												254	7.6		12579.0 12581.8		48602 48603
		1600												250	8.1				48600 48604
		1700												259	8.0		12560.0 12560.1		48538 48543
		1850		158										267	8.5		12553.5 12554.6		48481 48487
		1900		158										261	9.0		12549.4 12550.2		48452 48457
		2000		158										259	8.5		12548.9 12551.9		48452 48452
		2150		158										264	8.0		12547.4 12548.8		48534 48533
		2200		158										256	8.4		12548.9 12550.9		484 484
		2350		158									Routine	262	8.4		12547.9 12549.9		48464 48464
	1-3	5-8	9, 10	12-15	16-19	21-23	25-28	29-33	37	38	39	40							

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MDIG 1/77

U.S.G.S. GEOPOTENTIAL SENSOR LOG:

LEG 4 EQUIP. TYPE Gradiometer/Gravity PAGE 33 OF _____

LOCATOR F4 (ID.) - 86 (YR.) - BS (AREA) (COL. 73-80) TOW DIST./DEPTH: SOURCE _____ RECEIVER _____ SHIP FARNELLA

RECORDER TYPE/NO. _____ CHIEF SCIENTIST Cooper/Kenyon

PUNCH FLAG	TIME & POSITION * JULIAN DAY	GMT HR.-MIN.	GMT SEC.	LINE NO.	STA. NO. OR SHOT POINT	MED/SPEC. CODE 3 LETT'S	ARCHIVE NO. DATA/EQUIP. CODE 4 LETTERS	ARCHIVE NO. ROLL, REEL OR SEQUENCE NO. 5 LET/NO.	'X' IN ONE BOX ONLY S/E OF ROLL, REEL STRT	S/E OF ROLL, REEL END	DATA/SYST RECORDING ON	DATA/SYST RECORDING OFF	COMMENTS	COURSE	SPEED	SYSTEM 1: GRAVITY REC. SCALE / SAMPLE RATE	SYSTEM 1: GRAVITY DIGITAL / ANALOG	SYSTEM 2: MAGNETICS REC. SCALE / SAMPLE RATE	SYSTEM 2: MAGNETICS MSTR. READING / SLAVE READING
	264	0000		158**				*					Routine	257	8.5		12544.5 12546.9		48388 48395
	264	0100		158										255	9.2		12539.1 12541.2		48386 48387
	264	0200		158										256	8.4		12533.9 12535.6		48393 48392
	264	0300		158										255	7.4		12532.0 12534.8		48438 48437
	264	0400		158										254	8.1		12531.9 12534.2		48449 48452
	264	0500		158										258	8.3		12532.6 12535.9		48337 48340
	264	0600		158										263	8.0		12533.3 12536.5		48218 48219
	264	0700		158										265	8.6		12537.6 12540.3		48123 48125
		0800												263	9.4		12539.9 12541.9		48123 48121
		0900												262	8.7		12538.0 12539.4		48110 48114
		1000												262	9.8		12534.3 12536.2		48107 48111
		1100												258	9.2		12520.0 12521.0		48009 48016
		1200												251	8.6		12509.5 12511.7		48129 48135
		1300												253	8.9		12498.5 12499.3		48335 48337
		1402												258	9.2		12506.5 12510.1		48273 48273
	1-3	5-8	9, 10	12-15	16-19	21-23	25-28	29-33	37	38	39	40							

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MDIG 1/77

U.S.G.S. GEOPOTENTIAL SENSOR LOG: LEG 4 EQUIP. TYPE Gradiometer / Gravity PAGE 34 OF _____

TOW DIST./DEPTH: SOURCE _____ RECEIVER _____ SHIP Farnella

LOCATOR _____ – _____ – _____ (COL. 73-80) RECORDER TYPE/NO. _____ CHIEF SCIENTIST Cooper / Kenyon

PUNCH FLAG	TIME & POSITION * JULIAN DAY	GMT HR.-MIN.	GMT SEC.	LINE NO.	STA. NO. OR SHOT POINT	MED/SPEC. CODE 3 LETT'S	ARCHIVE NO. DATA/EQUIP. CODE 4 LETTERS	ARCHIVE NO. ROLL, REEL OR SEQUENCE NO. 5 LET/NO.	'X' IN ONE BOX ONLY S/E OF ROLL, REEL STRT	S/E OF ROLL, REEL END	DATA/SYST RECORDING ON	DATA/SYST RECORDING OFF	COMMENTS	COURSE	SPEED	SYSTEM 1: GRAVITY REC. SCALE SAMPLE RATE	SYSTEM 1: GRAVITY DIGITAL ANALOG	SYSTEM 2: MAGNETICS REC. SCALE SAMPLE RATE	SYSTEM 2: MAGNETICS MSTR. READING SLAVE READING
	264	1500		159**				*					Routine	172	10.3		12458.6 12441.4		48308 48317
		1600		160									Routine	089	7.4		12436.4 12432.4		482 61 482 63
		1700												087	8.6		12444.5 12446.2		481 28 481 30
		1800												087	8.5		12452.9 12454.7		48269 48274
		1900												088	8.3		12474.7 12477.6		482 94 482 94
		2000												089	7.9		12486.3 12487.8		48220 48217
	264	2100		160										090	7.6		12465.3 12464.8		48164 48166
✓		2102		160		MAG	GRVS	10		X			End TAPE #10						
✓		2106		160		MAG	GRVS	11	X				Start TAPE #11						
		2200												087	7.9		12458.9 12462.5		48154 48163
		2300												083	8.1		12490.5 12494.1		47900 47894
	265	0000		160										083	8.4		12499.4 12498.0		47933 47937
		0100		160										082	8.0		12480.4 12478.5		48106 48114
		0200		160										082	7.8		12470.2 12470.0		48056 48058
		0300		160										083	8.6		12465.1 12465.7		48117 48126
	1-3	5-8	9, 10	12-15	16-19	21-23	25-28	29-33	37	38	39	40							

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MDIG 1/77

U.S.G.S. GEOPOTENTIAL SENSOR LOG:

LEG _____ EQUIP. TYPE Gradiometer / Gravity PAGE 35 OF _____

LOCATOR F4 - 86 - B5 (ID. / YR. / AREA) (COL. 73-80) TOW DIST./DEPTH: SOURCE _____ RECEIVER _____ SHIP FARNELLA

RECORDER TYPE/NO. _____ CHIEF SCIENTIST COOPER / KENYON

PUNCH FLAG	TIME & POSITION * JULIAN DAY	GMT HR.-MIN.	GMT SEC.	LINE NO. **	STA. NO. OR SHOT POINT	MED/SPEC. CODE 3 LETT'S	ARCHIVE NO. DATA/EQUIP. CODE 4 LETTERS	ARCHIVE NO. ROLL, REEL OR SEQUENCE NO. 5 LET/NO. *	'X' IN ONE BOX ONLY S/E OF ROLL, REEL STRT	S/E OF ROLL, REEL END	DATA/SYST RECORDING ON	DATA/SYST RECORDING OFF	COMMENTS	COURSE	SPEED	SYSTEM 1: GRAVITY REC. SCALE / SAMPLE RATE	SYSTEM 1: GRAVITY DIGITAL / ANALOG	SYSTEM 2: MAGNETICS REC. SCALE / SAMPLE RATE	SYSTEM 2: MAGNETICS MSTR. READING / SLAVE READING
	265	0400		160									Routine	086	8.0		12480.2 12483.4		47877 47882
		0500		160										084	8.2		12480.6 12481.2		47903 47909
		0600		160										078	8.6		12488.3 12490.4		48163 48158
		0700		160										077	8.5		12480.0 12478.9		48359 48365
		0714		160		PAP	GRAD	9		X			END Roll 9 Gradiometer						
		0715		160		PAP	GRAD	10	X				START Roll 10 Gradiometer						
		0720		160		PAP	GRVS	9		X			END Roll 9 Gravity						
		0722		160		PAP	GRVS	10	X				START Roll 10 Gravity						
		0800											Routine	072	8.1		12523.3 12529.0		48279 48278
		0900												072	8.2		12539.1 12541.1		48447 48455
		1000												074	8.0		12521.9 12517.7		48229 48233
		1100												074	8.0		12509.6 12511.8		48282 48287
		1200												073	9.0		12500.9 12500.4		48410 48413
		1300												074	8.2		12515.6 12515.9		48655 48659
		1400												076	8.7		12507.6 12505.5		48704 48707
	1-3	5-8	9, 10	12-15	16-19	21-23	25-28	29-33	37	38	39	40							

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U.S.G.S. GEOPOTENTIAL SENSOR LOG: LEG 4 EQUIP. TYPE Gradiometer/Gravity PAGE 36 OF _____

LOCATOR F4 (ID.) - 86 (YR.) - BS (AREA) (COL. 73-80) TOW DIST./DEPTH: SOURCE _____ RECEIVER _____ SHIP Farnella

RECORDER TYPE/NO. _____ CHIEF SCIENTIST Cooper/Kenyon

PUNCH FLAG	TIME & POSITION * JULIAN DAY	GMT HR.-MIN.	GMT SEC.	LINE NO.	STA. NO. OR SHOT POINT	MED/SPEC. CODE 3 LETT'S	ARCHIVE NO. DATA/EQUIP. CODE 4 LETTERS	ARCHIVE NO. ROLL, REEL OR SEQUENCE NO. 5 LET/NO.	'X' IN ONE BOX ONLY S/E OF ROLL, REEL STRT	S/E OF ROLL, REEL END	DATA/SYST RECORDING ON	DATA/SYST RECORDING OFF	COMMENTS	COURSE	SPEED	SYSTEM 1: GRAVITY REC. SCALE SAMPLE RATE	SYSTEM 1: GRAVITY DIGITAL ANALOG	SYSTEM 2: MAGNETICS REC. SCALE SAMPLE RATE	SYSTEM 2: MAGNETICS MSTR. READING SLAVE READING
	265	1500		160 **				*					Routine	076	7.8		12538.3 12539.0		48813 48819
		1600												073	8.1		12574.7 12576.8		49147 49139
		1700												074	8.4		12565.0 12561.4		48729 48688
		1800												074	8.8		12532.8 12528.3		49015 48016
	266	1900		161									LINE 161	311	8.4		12590.3 12611.8		49975 48981
		2000												306	8.0		12580.5 12583.3		48741 48746
		2100												306	8.4		12576.9 12578.5		48598 48603
		2300											Reset system clk on Gravity 1 min fast	310	8.5		12579.0 12582.2		48690 48696
		2300												309	8.8		12594.6 12600.8		48768 48772
	266	0000												317	8.6		12605.1 12610.5		48887 48887
		0100		161										314	8.0		12617.9 12622.8		48961 48962
		0200		161										314	8.5		12628.3 12632.9		49065 49066
		0300		161										312	8.7		12636.4 12642.9		49116 49117
		0400		161										309	7.8		12646.1 12650.6		49174 49180
		0500		161										309	8.8		12652.1 12658.2		49086 49090
	1-3	5-8	9, 10	12-15	16-19	21-23	25-28	29-33	37	38	39	40							

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U.S.G.S. GEOPOTENTIAL SENSOR LOG:

LEG _____ EQUIP. TYPE GRADIOMETER/GRAVITY PAGE 37 OF _____

TOW DIST./DEPTH: SOURCE _____ RECEIVER _____ SHIP FARNELLA

LOCATOR F4 (ID.) - 86 (YR.) - BS (AREA) (COL. 73-80) ARCHIVE NO.

RECORDER TYPE/NO. _____ CHIEF SCIENTIST COOPER/KENYON

PUNCH FLAG	TIME & POSITION * JULIAN DAY	GMT HR.-MIN.	GMT SEC.	LINE NO.	STA. NO. OR SHOT POINT	MED./SPEC. CODE	DATA/EQUIP. CODE	ROLL, REEL OR SEQUENCE NO.	'X' IN ONE BOX ONLY S/E OF ROLL, REEL STRT	S/E OF ROLL, REEL END	DATA/SYST RECORDING ON	DATA/SYST RECORDING OFF	COMMENTS	COURSE	SPEED	SYSTEM 1: GRAVITY REC. SCALE / SAMPLE RATE	SYSTEM 1: GRAVITY DIGITAL / ANALOG	SYSTEM 2: MAGNETICS REC. SCALE / SAMPLE RATE	SYSTEM 2: MAGNETICS MSTR. READING / SLAVE READING
				**				*											
	266	0600		161									Routine	308	8.4		12659.2 12666.3		49188 49192
		0700		161										308	7.7		12664.6 12668.3		49309 49312
		0800												310	9.2		12673.8 12678.8		49327 49329
		0900												310	8.6		12682.3 12685.9		49353 49357
		1005												312	8.0		12690.0 12690.6		49366 49365
		1100												308	9.1		12698.4 12698.9		49454 49452
		1200												308	8.9		12707.7 12711.4		49508 49511
		1306												310	8.9		12717.2 12718.8		49540 49546
		1400		162										214	7.6		12703.5 12706.1		49493 49494
		1501												212	7.4		12691.5 12689.1		49389 49397
		1600		163										129	7.0		12639.7 12619.6		49337 49371
		1700												129	7.1		12630.8 12611.5		49308 49314
		1800												133	8.5		12620.9 12600.9		49265 49271
		1900												127	7.4		12612.9 12596.0		49215 49219
	266	2050		163									Routine	126	8.1		12604.4 12584.0		49185 49196
	1-3	5-8	9, 10	12-15	16-19	21-23	25-28	29-33	37	38	39	40							

* PLEASE RIGHT-JUSTIFY THESE ENTRIES

** DO NOT ENTER ST/END OF LINE ON THIS FROM (FOR KEYPUNCHING)

MDIG 1/77

U.S.G.S. GEOPOTENTIAL SENSOR LOG: LEG 4 EQUIP. TYPE GRADIOMETER/GRAVITY PAGE 38 OF _____

LOCATOR F4 (ID.) - 86 (YR.) - BS (AREA) (COL. 73-80) TOW DIST./DEPTH: SOURCE _____ RECEIVER _____ SHIP FAKNELLA

RECORDER TYPE/NO. _____ CHIEF SCIENTIST _____

PUNCH FLAG	TIME & POSITION * JULIAN DAY	GMT HR.-MIN.	GMT SEC.	LINE NO. **	STA. NO. OR SHOT POINT	ARCHIVE NO. MED/SPEC. CODE 3 LETT'S	DATA/EQUIP. CODE 4 LETTERS	ROLL, REEL OR SEQUENCE NO. 5 LET/NO. *	'X' IN ONE BOX ONLY S/E OF ROLL, REEL STRT	S/E OF ROLL, REEL END	DATA/SYST RECORDING ON	DATA/SYST RECORDING OFF	COMMENTS	COURSE	SPEED	SYSTEM 1: GRAVITY REC. SCALE SAMPLE RATE	SYSTEM 1: GRAVITY DIGITAL ANALOG	SYSTEM 2: MAGNETICS REC. SCALE SAMPLE RATE	SYSTEM 2: MAGNETICS MSTR. READING SLAVE READING
	266	21,02		163										128	8.2		12596.5 12581.5		49160 49162
✓		21,02		163		MAG	GRVS	1.1		X									
✓		21,05		163		MAG	GRVS	1.2	X										
		22,00		163										126	8.6		12585.6 12571.1		49001 49001
		23,00												131	8.6		12579.9 12566.0		49020 49020
	267	0,00,0		163										132	9.1		12570.9 12560.7		49022 49030
		01,00		163										128	9.8		12562.4 12554.9		48913 48918
		02,00		163										125	8.8		12554.3 12546.8		48853 48850
		03,00		163										122	7.5		12542.1 12537.7		48812 48815
		04,00		163										122	7.9		12531.2 12527.8		48777 48778
		05,00		163										126	8.5		12517.6 12514.2		48712 48716
		06,00											NOT TAKEN CHANGING LINES	—			—		—
		07,00		164										261	8.5		12561.1 12557.9		48568 48567
✓		07,05		164		PAP	GRVS	10		X			END ROLL 10 Gravity						
✓		07,06		164		PAP	GRVS	1.1	X				Start Roll 11 Gravity						
	1-3	5-8	9, 10	12-15	16-19	21-23	25-28	29-33	37	38	39	40							

* PLEASE RIGHT-JUSTIFY THESE ENTRIES

** DO NOT ENTER ST/END OF LINE ON THIS FROM (FOR KEYPUNCHING)

MDIG 1/77

U.S.G.S. GEOPOTENTIAL SENSOR LOG: LEG _____ EQUIP. TYPE GRADIOMETER/GRAVITY PAGE 39 OF _____

TOW DIST./DEPTH: SOURCE _____ RECEIVER _____ SHIP FARNELLA

LOCATOR F4 - 86 - BS (ID. - YR. - AREA) (COL. 73-80) ARCHIVE NO. RECORDER TYPE/NO. _____ CHIEF SCIENTIST COOPER/KENYON

PUNCH FLAG	TIME & POSITION * JULIAN DAY	GMT HR.-MIN.	GMT SEC.	LINE NO. **	STA. NO. OR SHOT POINT	MED/SPEC. CODE 3 LETT'S	DATA/EQUIP. CODE 4 LETTERS	ROLL, REEL OR SEQUENCE NO. 5 LET/NO. *	'X' IN ONE BOX ONLY S/E OF ROLL, REEL STRT	S/E OF ROLL, REEL END	DATA/SYST RECORDING ON	DATA/SYST RECORDING OFF	COMMENTS	COURSE	SPEED	SYSTEM 1: GRAVITY REC. SCALE / SAMPLE RATE	SYSTEM 1: GRAVITY DIGITAL / ANALOG	SYSTEM 2: MAGNETICS REC. SCALE / SAMPLE RATE	SYSTEM 2: MAGNETICS MSTR. READING / SLAVE READING
1-3	5-8		9, 10	12-15	16-19	21-23	25-28	29-33	37	38	39	40							
	267	0720		164		PAP	GRAD	10		X			END ROLL 10 Gradiometer						
		0721		164		PAP	GRAD	11	X				START ROLL 11 Gradiometer						
		0802		164									Routine	263	9.6		12561.3 12563.9		48478 48481
		0900		165										312	8.1		12558.9 12558.7		48563 48563
		1000												317	8.9		12569.9 12574.0		48693 48694
		1100												314	9.3		12582.3 12586.3		48740 48743
		1200												311	6.7		12588.9 12591.9		48733 48751
		1300												313	6.1		12598.3 12601.8		48882 48882
		1400												312	6.4		12608.0 12610.4		48876 48879
		1500												309	6.3		12617.8 12618.9		48976 48979
	267	1600		165										307	8.1		12625.5 12628.9		49018 49018
		1700												308	8.1		12634.7 12635.3		48980 48984
		1800												303	7.6		12641.6 12646.3		49022 49027
		1900												311	7.6		12647.1 12651.2		49055 49056
	267	2000		165									Routine	311	7.9		12651.1 12654.8		49120 49119

* PLEASE RIGHT-JUSTIFY THESE ENTRIES

** DO NOT ENTER ST/END OF LINE ON THIS FROM (FOR KEYPUNCHING)

U.S.G.S. GEOPOTENTIAL SENSOR LOG:

LEG 4 EQUIP. TYPE GRADIOMETER/GRAVITY PAGE 40 OF _____

LOCATOR F4 (I.D.) - 86 (YR.) - BS (AREA) (COL. 73-80) TOW DIST./DEPTH: SOURCE _____ RECEIVER _____ SHIP FARNELLA

RECORDER TYPE/NO. _____ CHIEF SCIENTIST COOPER/KENYON

PUNCH FLAG	TIME & POSITION * JULIAN DAY	GMT HR.-MIN.	GMT SEC.	LINE NO. **	SHOT POINT	ARCHIVE NO. MEDIA/SPEC. CODE 3 LETT'S.	DATA/EQUIP. CODE 4 LETTERS	ROLL OR REEL NO. 4 LET./No. *	PUT 'X' IN COR. BOX S/E OF ROLL, REEL STRT	END	DATA/SYST RECORDING ON	OFF	COMMENTS	COURSE	SPEED	SYSTEM 1: GRAVITY REC. SCALE SAMPLE RATE	SYSTEM 1: GRAVITY DIGITAL ANALOG	SYSTEM 2: MAGNETICS REC. SCALE SAMPLE RATE	SYSTEM 2: MAGNETICS MSTR. READING SLAVE READING
	267	21.60		165									Routine	308	7.8				12659.7 12665.4 / 49300 49301
	267	2260												308	7.7				12665.1 12671.4 / 49389 49392
		2300												308	7.8				12666.7 12672.2 / 49389 49393
	268	0000		165										314	7.9		12668.7 12676.7		49351 49353
		0100		166										224	8.2		12654.8 12655.6		49323 49327
		0200		166										229	8.4		12635.8 12637.1		49209 49212
		0300		167										122	8.1		12585.6 12568.5		49143 49151
		0400		167										118	7.3		12587.0 12559.7		49083 49083
		0500		167										113	6.8		12592.2 12560.7		49040 49042
		0600		167										121	7.7		12588.5 12568.7		49120 49124
		0700		167										126	7.8		12586.0 12575.9		49183 49184
		0800												129	7.1		12577.0 12570.0		49168 49175
		0900												134	8.1		12568.0 12566.9		48929 48936
		1000												138	8.2		12558.5 12555.9		48853 48855
		1108												138	10.2		12547.0 12544.2		48858 48864
	1-3	5-8	9,10	12-15	16-19	21-23	25-28	29-32	37	38	39	40							

* PLEASE RIGHT-JUSTIFY THESE ENTRIES

** DO NOT ENTER ST/END OF LINE ON THIS FORM (FOR KEYPUNCHING)

U.S.G.S. GEOPOTENTIAL SENSOR LOG: LEG _____ EQUIP. TYPE Gradiometer / Gravity PAGE 41 OF _____

LOCATOR F4 (I.D.) - 86 (YR.) - BS (AREA) (COL. 73-80) TOW DIST./DEPTH: SOURCE _____ RECEIVER _____ SHIP Farnella

RECORDER TYPE/NO. _____ CHIEF SCIENTIST _____

PUNCH FLAG	TIME & POSITION * JULIAN DAY	GMT HR.-MIN.	GMT SEC.	LINE NO. **	SHOT POINT	MEDIA/SPEC. CODE 3 LETT'S.	ARCHIVE NO. DATA/EQUIP. CODE 4 LETTERS	ARCHIVE NO. ROLL OR REEL NO. 4 LET./No. *	PUT 'X' IN COR. BOX S/E OF ROLL, REEL STRT	END	DATA/SYST RECORDING ON	OFF	COMMENTS	COURSE	SPEED	SYSTEM 1: GRAVITY REC. SCALE / SAMPLE RATE	DIGITAL / ANALOG	SYSTEM 2: MAGNETICS REC. SCALE / SAMPLE RATE	MSTR. READING / SLAVE READING
	268	1200		167									Routine	136	8.9		12532.3 12529.7		48858 48861
		1300												133	8.9		12519.7 12515.1		48727 48732
		1400												133	6.0		12515.1 12512.0		48626 48627
		1500												128	5.8		12501.9 12499.2		48608 48612
	268	1600		168									TURNING TO SOL 168						48486 48489
		1700		168										306	9.7		12568.3 12570.3		48619 48626
		1800		168									EOL 168 1801 SOL 169 1805	310	8.4		12574.2 12574.3		48656 48657
		1900		169										262	8.5		12579.5 12580.9		48674 48674
		2000		169										254	7.9		12576.1 12580.1		48695 48699
		2100												256	7.4		12572.4 12575.9		4866 4868
✓		2103		169		MAG	GRVS	1.2		X									~~48750~~ ~~48756~~
✓		2106		169		MAG	GRVS	1.3	X										
		2200												253	7.7		12571.6 12574.3		48750 48756
		2300		169										255	7.7		12569.5 12572.2		48636 48641
	269	0000		169										259	8.3		12569.9 12571.4		48480 48484
	1-3	5-8	9,10	12-15	16-19	21-23	25-28	29-32	37	38	39	40							

* PLEASE RIGHT-JUSTIFY THESE ENTRIES

** DO NOT ENTER ST/END OF LINE ON THIS FORM (FOR KEYPUNCHING)

U.S.G.S. GEOPOTENTIAL SENSOR LOG:

LEG _____ EQUIP. TYPE GRADIOMETER / GRAVITY PAGE 42 OF _____

LOCATOR F4 - 86 - BS (COL. 73-80) (I.D. - YR. - AREA)

TOW DIST./DEPTH: SOURCE _____ RECEIVER _____ SHIP FARNELLA

RECORDER TYPE/NO. _____ CHIEF SCIENTIST COOPER / KENYON

PUNCH FLAG	TIME & POSITION * JULIAN DAY	GMT HR.-MIN.	GMT SEC.	LINE NO. **	SHOT POINT	ARCHIVE NO. MEDIA/SPEC. CODE 3 LETT'S.	DATA/EQUIP. CODE 4 LETTERS	ROLL OR REEL NO. 4 LET./No. *	PUT 'X' IN COR. BOX S/E OF ROLL, REEL STRT	END	DATA/SYST RECORDING ON	OFF	COMMENTS	COURSE	SPEED	SYSTEM 1: GRAVITY REC. SCALE / SAMPLE RATE	SYSTEM 1: GRAVITY DIGITAL / ANALOG	SYSTEM 2: MAGNETICS REC. SCALE / SAMPLE RATE	SYSTEM 2: MAGNETICS MSTR. READING / SLAVE READING
	269	0100		169										260	7.8		12568.3 12570.7		48450 48455
		0200		169										262	8.0		12565.9 12567.4		48450 48452
		0300		169										262	7.6		12560.8 12561.3		48462 48467
		0400		169										263	7.6		12549.1 12549.6		48410 48413
		0500		169										265	7.5		12536.6 12536.6		48432 48437
✓		0544		169		MAG	GRAD	5				X	SYS OFF / NO EOF						
✓		0544		169		PAP	GRAD	11				X	SYS OFF /						
		0600		169										260	7.8		12516.0 12516.2		SYS OFF
✓		0614		169		PAP	GRAD	11			X		SYS ON	~~058~~	~~8.0~~				~~48247~~ ~~48251~~
		0700		169										258	8.0		12503.3 12504.6		48247 48251
✓		0709		169		PAP	GRVS	11		X			END ROLL 11 GRAVITY						
✓		0710		169		PAP	GRVS	12	X				START ROLL 12 GRAVITY						
✓		0721		169		MAG	GRAD	6			X		SYS ON						
✓		0544		169		MAG	GRAD	~~5~~ 6		X			END TAPE ~~5~~ 6 Gradiometer						
✓		0721		169		MAG	GRAD	6	X				START TAPE 6 Gradiometer						
	1-3	5-8	9,10	12-15	16-19	21-23	25-28	29-32	37	38	39	40							

* PLEASE RIGHT-JUSTIFY THESE ENTRIES

** DO NOT ENTER ST/END OF LINE ON THIS FORM (FOR KEYPUNCHING)

U.S.G.S. GEOPOTENTIAL SENSOR LOG: LEG _____ EQUIP. TYPE GRADIOMETER/GRAVITY PAGE 43 OF _____

LOCATOR F4 – 86 – BS (COL. 73-80) (I.D. – YR. – AREA) TOW DIST./DEPTH: SOURCE _____ RECEIVER _____ SHIP FARNELLA

RECORDER TYPE/NO. _____ CHIEF SCIENTIST COOPER/KENYON

PUNCH FLAG	TIME & POSITION * JULIAN DAY	GMT HR.-MIN.	GMT SEC.	LINE NO. **	SHOT POINT	ARCHIVE NO. MEDIA/SPEC. CODE 3 LETT'S.	DATA/EQUIP. CODE 4 LETTERS	ROLL OR REEL NO. 4 LET./No. *	PUT 'X' IN COR. BOX S/E OF ROLL, REEL STRT	END	DATA/SYST RECORDING ON	OFF	COMMENTS	COURSE	SPEED	SYSTEM 1: GRAVITY REC. SCALE SAMPLE RATE	SYSTEM 1: GRAVITY DIGITAL ANALOG	SYSTEM 2: MAGNETICS REC. SCALE SAMPLE RATE	SYSTEM 2: MAGNETICS MSTR. READING SLAVE READING
	269	07.27		1.69		PAP	GRAD	1.1		X			End Roll 11 Gradiometer						
		07.28		1.69		PAP	GRAD	1.2	X				Start Roll 12 Gradiometer						
		08.00		1.69									Routine	258	7.6		12553.1 12561.1		48209 48211
		09.02		1.70										034	8.3		12530.3 12517.7		48365 48371
		10.00		1.70										036	7.5		12523.3 12515.9		48558 48562
		11.00		1.70										033	6.9		12536.2 12526.2		48586 48589
		12.00		1.71										078	9.2		12458.1 12442.7		48615 48615
		13.00												077	8.1		12457.0 12453.4		48653 48654
		14.00												076	8.2		12477.4 12472.8		48729 48733
		15.00												074	8.0		12503.9 12501.3		48734 48737
	269	16.00		1.71										074	7.8		12525.0 12519.8		48671 48678
		17.00												076	8.3		12528.8 12526.3		48693 48699
		18.00												077	8.1		12533.7 12532.4		48745 48747
		19.00												076	7.9		12535.8 12533.7		48886 48890
	269	20.00		1.71									Routine	079	8.3		12536.5 12531.3		48911 48914
	1-3	5-8	9,10	12-15	16-19	21-23	25-28	29-32	37	38	39	40							

* PLEASE RIGHT-JUSTIFY THESE ENTRIES

** DO NOT ENTER ST/END OF LINE ON THIS FORM (FOR KEYPUNCHING)

U.S.G.S. GEOPOTENTIAL SENSOR LOG:

LEG 4 EQUIP. TYPE Gradiometer/GRAVITY PAGE 44 OF

LOCATOR EY – 86 – B5 (COL. 73-80)
I.D. YR. AREA

TOW DIST./DEPTH: SOURCE RECEIVER SHIP FARNELLA

RECORDER TYPE/NO. CHIEF SCIENTIST COOPER/KENYON

ARCHIVE NO.

PUNCH FLAG	TIME & POSITION * JULIAN DAY	GMT HR.-MIN.	GMT SEC.	LINE NO. **	SHOT POINT	MEDIA/SPEC. CODE 3 LETT'S.	DATA/EQUIP. CODE 4 LETTERS	ROLL OR REEL NO. 4 LET./No. *	PUT 'X' IN COR. BOX S/E OF ROLL, REEL STRT	END	DATA/SYST RECORDING ON	OFF	COMMENTS	COURSE	SPEED	SYSTEM 1: GRAVITY REC. SCALE / SAMPLE RATE	SYSTEM 1: GRAVITY DIGITAL / ANALOG	SYSTEM 2: MAGNETICS REC. SCALE / SAMPLE RATE	SYSTEM 2: MAGNETICS MSTR. READING / SLAVE READING
	269	2100		171									Routine	080	8.3		12535.7 12531.6		48751 48754
		2200		172									SOL 172	271	7.7				48757 48758
	269	2300		172									Routine	262	7.6		12621.1 12615.2		48935 48937
	270	0011		173										308	8.2		—		48913 48915
		0100		173										310	9.0		12613.3 12613.0		48862 48866
		0200		173										315	9.2		12619.5 12616.4		48826 48828
		0300		173										316	9.4		12620.6 12617.7		48886 48886
		0400		173										316	8.7		12622.5 12621.0		48984 48988
		0500		173										314	8.2		12613.6 12608.1		49021 49025
		0600		173										314	8.3		12594.5 12589.5		49108 49110
		0700		173										315	8.2		12579.8 12576.6		49129 49134
		0800												315	8.2		12571.5 12567.2		49159 49161
		0900											turning	311	8.7		12589.0 12581.1		49191 49193
		1000											Routine	336	7.8		12596.4 12587.1		49242 49242
		1100											11	307	8.0		12675.4 12678.4		49289 49288
	1-3	5-8	9,10	12-15	16-19	21-23	25-28	29-32	37	38	39	40							

* PLEASE RIGHT-JUSTIFY THESE ENTRIES

** DO NOT ENTER ST/END OF LINE ON THIS FORM (FOR KEYPUNCHING)

U.S.G.S. GEOPOTENTIAL SENSOR LOG: LEG _____ EQUIP. TYPE Gradiometer/Gravity PAGE 45 OF _____

LOCATOR F4 - 86 - BS (COL. 73-80) (I.D. - YR. - AREA) TOW DIST./DEPTH: SOURCE _____ RECEIVER _____ SHIP Farnella

RECORDER TYPE/NO. _____ CHIEF SCIENTIST _____

PUNCH FLAG	TIME & POSITION * JULIAN DAY	GMT HR.-MIN.	GMT SEC.	LINE NO. **	SHOT POINT	MEDIA/SPEC. CODE (3 LETT'S.)	ARCHIVE NO. DATA/EQUIP. CODE (4 LETTERS)	ARCHIVE NO. ROLL OR REEL NO. (4 LET./No.) *	PUT 'X' IN COR. BOX S/E OF ROLL, REEL STRT	S/E OF ROLL, REEL END	DATA/SYST RECORDING ON	DATA/SYST RECORDING OFF	COMMENTS	COURSE	SPEED	SYSTEM 1: GRAVITY REC. SCALE / SAMPLE RATE	SYSTEM 1: GRAVITY DIGITAL / ANALOG	SYSTEM 2: MAGNETICS REC. SCALE / SAMPLE RATE	SYSTEM 2: MAGNETICS MSTR. READING / SLAVE READING
	270	1200		173									Routine	322	6.5		12713.1 12699.5		49352 49356
		1300												321	5.9		12729.2 12727.5		49401 49403
		1400												322	7.8		12746.9 12740.7		49538 49544
		1500												321	8.3		12799.5 12795.5		49636 49643
	270	1600		173										318	7.6		12825.5 12815.9		49703 49711
		1700												321	7.8		12918.6 12802.7		49694 49701
		1800												~~130~~	~~8.0~~				
	270	1900		175										130	8.0		12681.3 12661.6		49702 49704
		2000												137	8.2		12664.3 12658.8		49612 49622
		2100												132	7.7		12645.0 12641.8		49501 49510
		2200												121	7.1		12616.6 12613.6		49500 49501
		2300												129	7.7		12586.9 12586.9		49453 49459
/		2304		176		MAG	GRVS	13		X			Time Run out unkn						
/		2307		175		MAG	GRVS	14	X										
	271	0000		175										129	7.4		12568.3 12568.9		49441 49448
	1-3	5-8	9,10	12-15	16-19	21-23	25-28	29-32	37	38	39	40							

* PLEASE RIGHT-JUSTIFY THESE ENTRIES

** DO NOT ENTER ST/END OF LINE ON THIS FORM (FOR KEYPUNCHING)

U.S.G.S. GEOPOTENTIAL SENSOR LOG:

LEG _____ EQUIP. TYPE GRADIOMETER/GRAVITY PAGE 46 OF _____

LOCATOR F4 (I.D.) - 86 (YR.) - BS (AREA) (COL. 73-80) TOW DIST./DEPTH: SOURCE _____ RECEIVER _____ SHIP FARNELLA

RECORDER TYPE/NO. _____ CHIEF SCIENTIST COOPER/KENYON

PUNCH FLAG	TIME & POSITION * JULIAN DAY	GMT HR.-MIN.	GMT SEC.	LINE NO. **	SHOT POINT	ARCHIVE NO. MEDIA/SPEC. CODE 3 LETT'S.	DATA/EQUIP. CODE 4 LETTERS	ROLL OR REEL NO. 4 LET./No. *	PUT 'X' IN COR. BOX S/E OF ROLL, REEL STRT	END	DATA/SYST RECORDING ON	OFF	COMMENTS	COURSE	SPEED	SYSTEM 1: GRAVITY REC. SCALE / SAMPLE RATE	SYSTEM 1: GRAVITY DIGITAL / ANALOG	SYSTEM 2: MAGNETICS REC. SCALE / SAMPLE RATE	SYSTEM 2: MAGNETICS MSTR. READING / SLAVE READING
	271	0100		175									Routine	134	7.9		12567.3 12569.9		49457 49456
	271	0200		175										134	7.4		12565.2 12569.4		49447 49455
	271	0300		175										133	9.1		12562.5 12566.0		49411 49420
	271	0400		175										132	8.6		12565.5 12568.2		49328 49331
	271	0500		175										133	8.8		12573.2 12578.3		49231 49237
	271	0600		176										237	8.4		12626.1 12646.5		49162 49160
	271	0700		176										240	8.8		12600.5 12603.7		49169 49176
✓	271	0717		176		PAP	GRAD	12		X			END ROLL 12 GRADIOMETER						
✓	271	0718		176		PAP	GRAD	13	X				START ROLL 13 GRADIOMETER						
✓	271	0724		176		PAP	GRVS	12		X			END ROLL 12 GRAVITY						
✓	271	0725		176		PAP	GRVS	13	X				START ROLL 13 GRAVITY						
		0800											Routine	240	8.6		12569.9 12571.2		49061 49067
		0900												236	8.4		12563.3 12568.2		48967 48972
		1000		177										124	8.2		12545.4 12523.5		48872 48870
		1100		177										117	9.1		12492.4 12492.4		48896 50013
	1-3	5-8	9,10	12-15	16-19	21-23	25-28	29-32	37	38	39	40							

* PLEASE RIGHT-JUSTIFY THESE ENTRIES

** DO NOT ENTER ST/END OF LINE ON THIS FORM (FOR KEYPUNCHING)

U.S.G.S. GEOPOTENTIAL SENSOR LOG:

LEG 4 EQUIP. TYPE Gradiometer / Gravity PAGE 47 OF _____

LOCATOR F4 (I.D.) - 86 (YR.) - BS (AREA) (COL. 73-80) TOW DIST./DEPTH: SOURCE _____ RECEIVER _____ SHIP Farnella

RECORDER TYPE/NO. _____ CHIEF SCIENTIST Cooper / Kenyon

PUNCH FLAG	TIME & POSITION * JULIAN DAY	GMT HR.-MIN.	GMT SEC.	LINE NO.	SHOT POINT	MEDIA/SPEC. CODE (ARCHIVE NO.) 3 LETT'S.	DATA/EQUIP. CODE 4 LETTERS	ROLL OR REEL NO. 4 LET./No.	PUT 'X' IN COR. BOX S/E OF ROLL, REEL STRT	END	DATA/SYST RECORDING ON	OFF	COMMENTS	COURSE	SPEED	SYSTEM 1: GRAVITY REC. SCALE / SAMPLE RATE	SYSTEM 1: GRAVITY DIGITAL / ANALOG	SYSTEM 2: MAGNETICS REC. SCALE / SAMPLE RATE	SYSTEM 2: MAGNETICS MSTR. READING / SLAVE READING
	271	1200		177 **				*					Routine	121	8.6		12500.4 12505.3		48903 48908
		1300												129	8.7		12521.2 12529.9		49005 49010
		1400												129	8.2		12533.4 12536.3		48944 48951
		1500		177										127	9.2		12536.2 12537.0		48750 48756
		1600		178									LINE 178	260	8.2		12596.1 12609.8		48698 48698
		1700												254	7.5		12573.5 12574.2		48787 48794
		1800		178										260	7.6		12549.3 12550.5		48775 48781
		1900		179									LINE 179	307	7.7		12529.3 12521.6		48813 48818
		2000												311	8.1		12538.5 12532.5		48777 48782
✓	271	2116		179		MAG	GRAD	6		X			END TAPE 6						
✓	271	2116		179		PAP	GRAD	13		X			END Roll 13						
✓	271	2116		179		MAG	GRAD	6				X							
✓	271	2116		179		PAP	GRAD	13				X							
✓	271	2116		179		SYS	GRAD					X							
	272	0000		TRAN										083	11.9		12458.1 12451.9		—
	1-3	5-8	9,10	12-15	16-19	21-23	25-28	29-32	37	38	39	40							

* PLEASE RIGHT-JUSTIFY THESE ENTRIES

** DO NOT ENTER ST/END OF LINE ON THIS FORM (FOR KEYPUNCHING)

U.S.G.S. GEOPOTENTIAL SENSOR LOG:

LEG _____ EQUIP. TYPE GRAVITY PAGE 48 OF _____

LOCATOR F4 (I.D.) - 86 (YR.) - BS (AREA) (COL. 73-80) TOW DIST./DEPTH: SOURCE _____ RECEIVER _____ SHIP FARNELLA

RECORDER TYPE/NO. _____ CHIEF SCIENTIST COOPER/KENYON

PUNCH FLAG	TIME & POSITION * JULIAN DAY	GMT HR.-MIN.	GMT SEC.	LINE NO. **	SHOT POINT	ARCHIVE NO. MEDIA/SPEC. CODE 3 LETT'S.	DATA/EQUIP. CODE 4 LETTERS	ROLL OR REEL NO. 4 LET./No. *	PUT 'X' IN COR. BOX S/E OF ROLL, REEL STRT	END	DATA/SYST RECORDING ON	OFF	COMMENTS	COURSE	SPEED	SYSTEM 1: GRAVITY REC. SCALE / SAMPLE RATE	SYSTEM 1: GRAVITY DIGITAL / ANALOG	SYSTEM 2: MAGNETICS REC. SCALE / SAMPLE RATE	SYSTEM 2: MAGNETICS MSTR. READING / SLAVE READING
	272	0400		TRAN									Routine	083	12.0		12541.0 12537.5		—
	272	0800		TRAN									"	082	12.5		12539.4 12529.2		—
	272	1200		TRAN									"	080	17.3		12556.3 12554.3		—
	272	1700		TRAN									Reset Clk TO correct Time Mk Recorder	082	12.5				
		2000		TRAN										082	12.5		12581.0 12581.1		
✓		2002		TRAN		MAG	GRVS	14		X									
✓		2005		TRAN		MAG	GRVS	15	X										
	273	0000		TRAN										078	13.1		12597.9 12604.3		—
	273	0400		TRAN										084	12.2		12642.2 12642.5		←
✓	273	0616		TRAN		PAP	GRVS	13		X			End Roll 13 Gravity						
✓	273	0617		TRAN		PAP	GRVS	14	X				Start Roll 14 Gravity						
	273	0800		/										085	13.2		12619.9 12624.5		—
	273	1200		/									Routine	115	13.5		12793.5 12793.4		
	273	1630		/		PAP	GRVS	14		X			End Roll 14						
	273	1630		TRAN		SYS	GRAV					X	End Data Collection						
	1-3	5-8	9,10	12-15	16-19	21-23	25-28	29-32	37	38	39	40							

* PLEASE RIGHT-JUSTIFY THESE ENTRIES

** DO NOT ENTER ST/END OF LINE ON THIS FORM (FOR KEYPUNCHING)

☆GPO 695-826