Schwab/
Twichell

FARNELLA
FRNL F4-90-GM
April 12-26, 1990
STATION LOG

Gulf of
Mexico

104751

MDIG 1/77

U.S.G.S. STATION OPERATIONS LOG

STATION # 1

SHIP/LEG FARNELLA - F4 AREA Gulf of Mexico LAT (ST/ED) 26° 13.87 } GC1

CHIEF SCI. Schwab/Twichell CRUISE LOCATOR (COL. 73-78) F4 - 90 (ID / YR.) AREA CODE GM (COL. 79-80) LONG (ST/ED) -86° 26.34 }

PUNCH FLAG	TIME & POSITION * JULIAN DAY	GMT TIME HR.-MIN.	LINE NO.	STA. NO. OR SHOT POINT	SPEC. CODE 3 LET.	EQUIP. CODE 4 LETTERS	SAMPLE ** ATTEMPT NO. 5 LET./NO.	'X' IN ONE BOX ONLY SAMPLING LOCATION DISCRETE E.G., DART CORE	VARIABLE E.G. DREDGE STRT	END	OPERATIONS, COMMENTS, OR DATA MEASUREMENTS	STATION DATA ONLY RECOVERY? Y/N	WATER DEPTH * 4 NO.	DEPTH UNIT LET
	103	1610					* GC1				ON STATION		* 3095	m
	103	1811					GC1	X			ON BOTTOM 26°13.87 -86°26.34	Y		
	103	2340					P2	X			ON BOTTOM 26° 13.97 -86° 26.19	Y		
	104	0300					P3	X			ON BOTTOM 26° 13.86 -86 26.16	Y	3095	m
	1-3	5-8	12-15	16-19	21-23	25-28	29-33	36	37	38	41-64	66	67-70	71

REMARKS: EQUIP., OPERATION, WEATHER, ETC.

* PLEASE RIGHT-JUSTIFY THESE ENTRIES

** FORMAT FOR SAMPLE LABEL IS: CRUISE LOCATOR-SAMPLE ATTEMPT # (E.G., S2-76-103)

MDIG 1/77

U.S.G.S. STATION OPERATIONS LOG

STATION * 8

SHIP/LEG FARNELLA / F4 AREA Gulf of Mexico LAT (ST/ED) _____

CHIEF SCI. Schwab / Twichell CRUISE LOCATOR (COL. 73-78) F4 ID. - 90 YR. AREA CODE (COL. 79-80) GM LONG (ST/ED) _____

PUNCH FLAG	TIME & POSITION * JULIAN DAY	GMT TIME HR.-MIN.	LINE NO.	STA. NO. OR SHOT POINT	SPEC. CODE 3 LET.	EQUIP. CODE 4 LETTERS	SAMPLE ** ATTEMPT NO. 5 LET./NO.	'X' IN ONE BOX ONLY SAMPLING LOCATION DISCRETE E.G., DART CORE	VARIABLE E.G., DREDGE STRT	END	OPERATIONS, COMMENTS, OR DATA MEASUREMENTS	STATION DATA ONLY RECOVERY? Y/N	WATER DEPTH 4 NO.	DEPTH UNIT LET
	104	0544					* PC4				IN THE WATER - GOING DOWN		*	
	104	0645					PC4				ON BOTTOM 26°14.73 - 86°26.12			
	104	0937					PC5				IN THE WATER - GOING DOWN		3060	m
	104	1052					PC5				ON BOTTOM - 26°14.73 - 86°26.15			
											↑ 4.3 ton pullout			
	104	1455					PC6				ON BOTTOM 26°14.72 - 86°26.12			
	104	1750					PC7				in Water 26°15.02 N 86°26.10 W			
	104	1845					PC7				ON Bottom 26°14.99 - 86°26.11 W		3065	
											↑ 4.6 Pullout			
	104	2148					PC8				ON BOTTOM 26°15.01 N - 86°26.09 W			
	105	0102					PC9				ON BOTTOM 26°16.81 - 86°24.42		3103	
											Didn't Trip Going Back Down			
	105	0546					PC10				On Bottom 26° 13.22 - 86° 26.74		3072	
	1-3	5-8	12-15	16-19	21-23	25-28	29-33	36	37	38	41-64	66	67-70	71

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U.S.G.S. STATION OPERATIONS LOG

STATION * _____

SHIP/LEG Farnella / F4 AREA Gulf of Mexico LAT (ST/ED) _____

CHIEF SCI. Twichell / Schwab CRUISE LOCATOR (COL. 73-78) F4 - 90 (ID / YR.) AREA CODE (COL. 79-80) LONG (ST/ED) _____

PUNCH FLAG	TIME & POSITION * JULIAN DAY	GMT TIME HR.-MIN.	LINE NO.	STA. NO. OR SHOT POINT	SPEC. CODE 3 LET.	EQUIP. CODE 4 LETTERS	SAMPLE ** ATTEMPT NO. 5 LET./NO.	'X' IN ONE BOX ONLY SAMPLING LOCATION DISCRETE E.G., DART CORE	VARIABLE E.G., DREDGE STRT	VARIABLE E.G., DREDGE END	OPERATIONS, COMMENTS, OR DATA MEASUREMENTS	STATION DATA ONLY RECOVERY? Y/N	WATER DEPTH 4 NO.	DEPTH UNIT LET
	1,05	09 12		PC 1 0			*				On Bottom 26° 13.22 -86° 26.75		*	
	1 05	1 25 8		PC 1 1		4.5 pullout					ON BOTTOM 26° 13.67 -86° 22.10			
	1 05	1 7 4 1		PC 12		4.7 pullout					O.N. Bottom 26° 17.826' N 86° 20.514 2 W		3140 M	
	105	21 48		PC 1 3		4.8 pullout					O.N. BOTTOM 26° 18.08 86° 20.24			
	1 06	0 1 03		PC 1 4		5.1 pullout					ON BOTTOM 26° 18.54 -86° 19.96			
	1 06	0 4 4 0		PC 15		5.0 POLLOUT					O.N BOTTOM 26° 18.48 -86° 19.78		3095	
	1 06	0 8 2 1		PC 16		4.8 POLLOUT					ON BOTTOM 26° 20.47' -86° 13.96'		3165	
	1 06	1 2 1 6		PC 1 7		5.1 pullout					ON BOTTOM 26° 15.89 -86 16.75		3121	
	1 06	1 6 0 8		PC 1 8		4.6 pullout					ON BOTTOM 26° 15.31 -86 16.59		3125	
	1-3	5-8	12-15	16-19	21-23	25-28	29-33	36	37	38	41-64	66	67-70	71

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U.S.G.S. STATION OPERATIONS LOG

STATION * _____

SHIP/LEG FARNELLA F4 AREA GULF of Mexico LAT (ST/ED) _____

CHIEF SCI. TWICHELL/SCHWAB CRUISE LOCATOR (COL. 73-78) F4 ID. - 90 YR. AREA CODE (COL. 79-80) GM LONG (ST/ED) _____

PUNCH FLAG	TIME & POSITION * JULIAN DAY	GMT TIME HR.-MIN.	LINE NO.	STA. NO. OR SHOT POINT	SPEC. CODE 3 LET.	EQUIP. CODE 4 LETTERS	SAMPLE ** ATTEMPT NO. 5 LET./NO.	X' IN ONE BOX ONLY SAMPLING LOCATION DISCRETE E.G., DART CORE	VARIABLE E.G., DREDGE STRT	END	OPERATIONS, COMMENTS, OR DATA MEASUREMENTS	STATION DATA ONLY RECOVERY? Y/N	WATER DEPTH 4 NO.	DEPTH UNIT LET
	106	1919		PC19		4.5 Pullout	*				ON BOTTOM 26° 14.56 -86° 16.43		*	
	106	2228		PC20		4.7 at 3059	30644m		hit w/ wire out		ON BOTTOM 26°15.29 -86° 16.67 (no position)			
	107	1855		PC21		Water	3353M				Start Down 25° 19.5 -84 44.93			
	107	2001		PC21		Wire	3287				Bottom 25° 19.48 -84 44.95		pullout 4.9	
	107	2351		GC22		Wire	3363				ON BOTTOM RIG 25° 20.70 N. -84°42.71 W	N	3400	
											4.9 pullout at 3356 m			
	108	0401		PC23		Wire	3346				ON Bottom 25°20.63 N. -84° 42.72 W			
					Depth	3410					4.9 Pullout			
	108	0822		PC24		wire out	3318				ON BOTTOM 25° 17.71 N - 84°40.40 W (GPS)			
	108	1124		PC25							CORER IN THE WATER AT LAST!!			
	1-3	5-8	12-15	16-19	21-23	25-28	29-33	36	37	38	41-64	66	67-70	71

REMARKS: EQUIP., OPERATION, WEATHER, ETC.

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U.S.G.S. STATION OPERATIONS LOG

STATION * _____

SHIP/LEG FARNELLA / F4 AREA Gulf of Mexico LAT (ST/ED) _____

CHIEF SCI. Schwab / Twichell CRUISE LOCATOR (COL. 73-78) F4 ID. - 90 YR. AREA CODE (COL. 79-80) GM LONG (ST/ED) _____

PUNCH FLAG	TIME & POSITION * JULIAN DAY	GMT TIME HR.-MIN.	LINE NO.	STA. NO. OR SHOT POINT	SPEC. CODE 3 LET.	EQUIP. CODE 4 LETTERS	SAMPLE ** ATTEMPT NO. 5 LET./NO.	X IN ONE BOX ONLY SAMPLING LOCATION DISCRETE E.G. DART CORE	VARIABLE E.G. DREDGE STRT	VARIABLE E.G. DREDGE END	OPERATIONS, COMMENTS, OR DATA MEASUREMENTS	STATION DATA ONLY RECOVERY? Y/N	WATER DEPTH 4 NO.	DEPTH UNIT LET
	108	1326					* PC25				ON BOTTOM 25°16.41 -84°43.48		*	
	108	1659			WIRE 3210	3208	PC26				ON Bottom 25°17.64N -84° 41.60W 4.3 pullout			
	108	2054			wire 3286	pullout 3283	PC27				ON BOTTOM 25° 20.27N -84°43.65W 4.8		pullout	
	109	1024				WIRE 3215	PC28				ON BOTTOM 26°43.06 -85°10.46 (GPS) 5.6		pullout	
	109	1348					PC29				OBM 26°42.66 -85°09.52 LBL			
	109	1751				wire 3212	PC30				On Bottom 26°42.4195 -85°9.0121 LBL	4.6	Pullout	
	109	2207			pullout 3210	wire 3215	PC31				ON BOTTOM 26°41.86 -85°08.20 (RHO)	4.6	pullout	
	110	0204				3215	PC32				OBM 26°41.44 -85°07.52	4.5	Pullout	
	110	0547				wire 3210	PC33				ON BOT 26°41.4802 -85 7.6022 (acou. nav)	4.7	pullout	
	110	1008				wire 3215	PC34				ON BOT 26°42.188 -85°07.537 (acou. nav)	4.6	pullout	
	110	1448				3211	PC35				OBM 26°42.18 -85°07.46	4.7	pullout	
	1-3	5-8	12-15	16-19	21-23	25-28	29-33	36	37	38	41-64	66	67-70	71

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STATION * _____

SHIP/LEG Farnella F4 AREA Gulf of Mexico LAT (ST/ED) _____

CHIEF SCI. Twichell/Schwab CRUISE LOCATOR (COL. 73-78) F4 (ID.) - 90 (YR.) AREA CODE (COL. 79-80) LONG (ST/ED) _____

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	110	1844				wire 3214	* PC36				Bottom 26°42.0989N -85 8.9338W Pullout		* 4.5	
	111	0902				3215	PC37				Bottom 26°41.44 -85°9.60 Pullout		3.7	
	111	0442				3216	PC38				Bottom 26°42.4969 -85°11.2330W Pullout		4.3	
	111	0840				3213	PC39				Bottom 26° 42.7116N -85° 11.2842W accu. Pullout 4.6			
											PC 39 EMPTY, returning to core site			
											there was a trigger core			
	111	1219				3215	PC40				Bottom 26°42.70 85°11.70	Po	4.2	
	111	1546				3218	PC41				BM 26°43.23 85°12.35	Po	4.1	
	111	1907				3212	PC42				Btm 26°43.6998 -85°13.2132 Pullout 4.2	@	3209	
	112	2241				3213	PC43				Btm 26°44.3136 -85° 8.5144N Pullout 4.2	@	3210	
	112	0134				3231	PC44				BTm 26°43.40 -85°9.17	Po	3.8	
	112	0443				3215	PC45				BTM 26°42.5057 -85 11.2481 pullout		4.7	
	112	0842				3215	PC46				Btm 26°40.7559N -85°10.6225 4.3+ pullout			
	112	1148				3218	PC47				Btm 26°40.6578 -85°10.4194 4.3+ pullout			
	112	1504				3282	PC48				BM 26°40.67 -85°10.43 4.1 Po			
	1-3	5-8	12-15	16-19	21-23	25-28	29-33	36	37	38	41-64	66	67-70	71

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STATION * _____

SHIP/LEG Farnella F4 AREA Gulf of Mexico LAT (ST/ED) _____

CHIEF SCI. Schwab/Twichell CRUISE LOCATOR (COL. 73-78) F4 ID. - 90 YR. AREA CODE (COL. 79-80) LONG (ST/ED) _____

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	1.12	1745				wire 3231	* PC49				Bottom 26° 42.4967 -85° 11.3228 pullout	3.3	* @ 3228	
	1.12	2012				wire out 3226	GC50				Bottom 26° 42.7511 -85° 11.9057 pullout	3.9	@ 3222	
	1.12	2254				wire out 3226	GC51				Bottom 26° 44.2605 -85° 8.3799 pullout	3.5	@ 3225	m
	1.13	1451				3224	PC52				BM 26°28.86 -85°05.04 Po 4.3			
	1.13	1815				wire out 3224	PC53	RHO			Bottom 26°27.85 -85° 04.70 Pullout	4.5	@ 3220	
	1.13	2147			1	wire out 3227	PC54	RHO			BOTTOM 26° 25.79 -85° 03.65W 4.4 pullout	@	3224	
	1.14	0100				3225	PC55	GPS			BM 26°24.87-85°03.53 4.5 Po		3225	
	1.14	0423				3226	PC56	GPS			BM 26° 23.71 - 85° 03.03 pullout 4.1			
	1.14	0827				3220	GC57	GPS			Btm 26° 30.84 -85° 16.11 3.8 ton pullout			
	1.14	1208				3203	PC58	GPS			BM 26.29.70 -85° 22.06 Po 3.4		3266	
	1.14	1457				3202	GC59	RHO			BM 26° 29.79' -85 22.01' P.O. 3.1		3266	
	1.14	1741				3213	GC60	RHO			BM 26° 30.31 -85° 22.27 P.O. 3.5 @ 3208			
	1.14	2022				3213	GC61	RHO			Btm: 26° 31.12N -85° 22.53 P.O. 3.8 @ 3208			
	1.14	2342				3225	GC62	GPS			Btm. 26° 30.47N -85° 14.99W P.O. 3.5 @ 3219			
	1.15	0228				3219	PC63				BM 26.29.72 -85° 12.80 PO 4.3 @ 3217			
	1-3	5-8	12-15	16-19	21-23	25-28	29-33	36	37	38	41-64	66	67-70	71

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STATION * _____

SHIP/LEG R/V FARNELLA AREA Gulf of Mexico LAT (ST/ED) _____

CHIEF SCI. TWICHELL/SCHWAB CRUISE LOCATOR (COL. 73-78) F4 - 90 (ID. / YR.) AREA CODE (COL. 79-80) LONG (ST/ED) _____

PUNCH FLAG	TIME & POSITION * JULIAN DAY	GMT TIME HR.-MIN.	LINE NO.	STA. NO. OR SHOT POINT	SPEC. CODE 3 LET.	EQUIP. CODE 4 LETTERS	SAMPLE ** ATTEMPT NO. 5 LET./NO.	'X' IN ONE BOX ONLY SAMPLING LOCATION DISCRETE E.G., DART CORE	VARIABLE E.G. DREDGE STRT	END	OPERATIONS, COMMENTS, OR DATA MEASUREMENTS	STATION DATA ONLY RECOVERY? Y/N	WATER DEPTH 4 NO.	DEPTH UNIT LET
	1-3	5-8	12-15	16-19	21-23	25-28	29-33	36	37	38	41-64	66	67-70	71
	115	0602		PC64		WIRE OUT *								
	115	0926		PC65		3235					BM 26°26.69N -85°4.61W Pullout	4.3	*	
	115	1509		PC66		3240					BM 26°26.78N -85°04.20W Pullout	4.2		
	115	1824		PC67		3237					BM 26°02.88 -84°54.90 PO 4.7		3306	M
↓											BM 26.05.48 -84.54.98 PO 4.1 @ 3235			

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