P.2.85 P.3.85 P.4.85 USGS

85004, 85006, 85007

POWELL-2,3,4

RECORD

SEISMIC LOG

Book 1

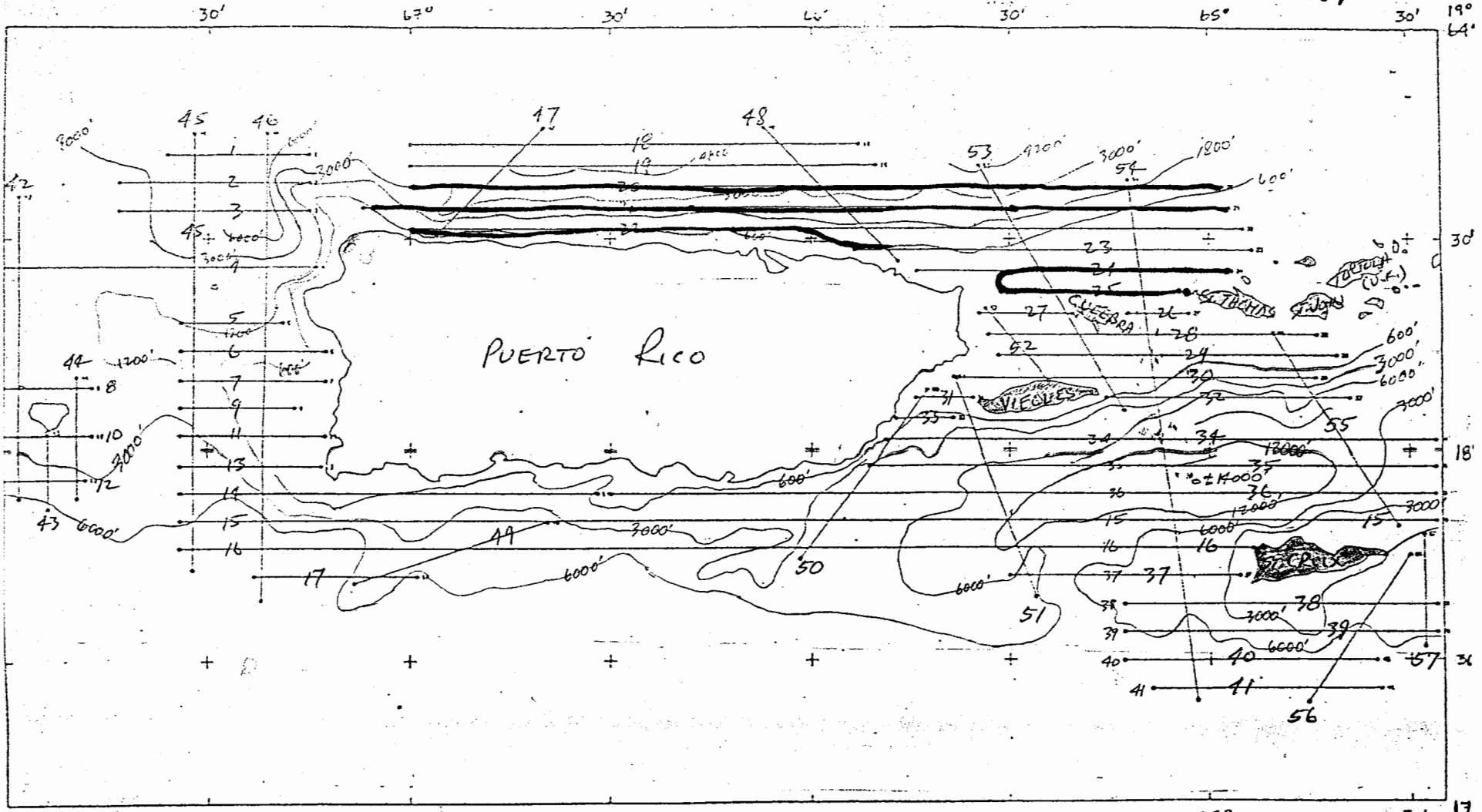
1985

7530-00-222-3525
FEDERAL SUPPLY SERVICE
(GPO)

104147

TR.

85004sei
85005sei
85004sei



PUERTO RICO REGULAR SHIP TRACKS FOR PUERTO RICO AND U.S. VIRGIN ISLANDS

—— lines completed prior to seismic

85004sei

POWELL-2

SEISMIC LOG

Puerto Rico - Virgin Islands

1985 28Feb -

"Lines" follow gravity "lines" shown on missle cover.

Tape #	JD	GMT	Sweep rate	Delay L	Filters L/H	Comments
50RR 22	60	0140	4sec	-0-	40/300	2-40" air guns; 200ft phone 700ft leader - 2 channels, 32 phones ea
						T=83° Depth 450m Sp. 5.4
	60	0150			25/300	0145 - 18°31-30N; 66 00 90W
	60	0215				
		0223				Start Line 22 CSP090
		0315				Lost 1 air gun Sp. 7.0
		0330				
		0345				
		0400				
		0415				
		0430				
		0445				
		0500				
		0515				
		0530				
		0545				
		0600				
		0615				
		0630				
		0645				
		0700				
		0715				

Line #	J.D	GMT	Sweep rate	Delay	Filters L/u	Comments
LINE 22		0730				0739-18°31.535N; 65°21.335
		0745				Compressor out [out of gas]
		0835				Compressor in
		0845				Reconditioned too
		0900				[illegible]
		0915				gun down
		0930				
		0945				
		1000				
		1015				
		1030				
		1045				
		1100				
		1115				
		1130				
EOL #22		1134				
SOL 19	160	1337				1339-18°40.527; 6456.663W
		~~1339~~				This is the eastern
		1345				extension of line 19
		1400				CSE 268° sp. 7.0
		1415				
		1430				
		1445				
		1500				
		1508				air gun leaking
						will repair at end of line

Line	JD	GMT	Sweep	Delay	Filters	
19	60	1611				guns out for repair
	60	1825				guns on line · 75 lines/inch · test practically no signal
		1845			40/205	
		1900				records still poor - streamer?
		1924				shut down to change streamer
19	60	2100	4	-0-	40/300	start - both streamers in the water - official start of gravity line 19.
		2115				
		2130				
		2145				
		2200				
		2215				
		2230				
		2245				
		2300				
		2315				
		2320			25/98 c	filter 25-98
		2330				
		2345				
	61	0000				
		0100				
		0200				
		0300				
		0315				
		0330				
		0345				

LINE	JD	GMT	Sweep	delay	Filters	Comments
19	61	0400				
		0415				
		0430				
		0445				
		0500				
		0515				
		0530				
		0545				
		0600				
EOL #19		0615				EOL 66°59.98'W; 18°46.54'N. TO LINE 2 MONA PASS
		0645				cse 248°; sp 7.0
		0700				
		0715				
		0730				
		0745				
		0800				
		0815				
		0830				
SOL #02		0842				LINE 02 ON MONA PASSG.
		0845				18°38.10'N
		0900				67°14.69'W
		1000				cse 270; sp 6.5
		1100				
		1200				1226-1344 Running
18°38.03'N		1326				→ END OF LINE 2
67°42.89'W		1338	5		95/125	C/S - 5 sec
18°	42.01'N	1344	cse 084	sp 6.1		START OF LINE 1
67°	39.80'W	1403	6			C/S - 6 sec

Line	ID	GMT	Filter	Sweep	Comments
~~02~~	61	1430	25/125	6	disconnected dd streamer
01		1500			
		1526		8	c/sweep 8 sec
		1600			Bottom of can ~~for~~
		1645		5	change sweep to 5 sec
		1700			
		1737			EOL 1 - transit to line 18
					CSE - ~~66°~~ (6 kts. 18°42.05'N; 67°14.35'W
		1800			
18		1815	CSE 087° Sp. 6.0 (?)		c/c 090 SOL LINE 18
					18° 43.56N; 67° 11.03'W
		2000			Same
		2100			
		2122			low press. Noted line lost.
		2210			Streamer disconnected
		2214			Streamer back in.
		2245			Streamer disconnected
		2300			Streamer connected
					record very bad - reason unknown.
		0000			"
		0027			Streamer connected
		0100			
		0200			
		0300			problem w/ cross corr. sonar - nav. speedo wrong ?
		0302			abort line returning to 18°43.5'N; 66°29'W.
		0305			coming about.

Line	JD	GMT	Sweep delays	Filters	comments
	62	0315			
		0330			cse 270, sp. 6.3
		0345			
		0400			
		0415			
		0430			
		0445			
		0500			
		0515			
		0530			
Line #18		0538			returning to line #18 [returning]
		0545			
		0600			
		0615			0616 start line 66°.306; 18°43.5 N
		0630			cse 83°, sp. 6.3
		0645			
		0700			
		0715			
		0730			
		0745			
		0800			
		0815			
		0830			
		0845			
		0900	1202 EOL 18		
		1330			system down problem in streamer connect

Line	JD	GMT	Sweep	Filters	Comments
[redacted]	62	1508	6	25/125	Transit from Line 18 to Line 48. System on line by bypassing connectors at dreme. Cse 292, sp. 6.9
		~1530			turning to approach N. end of line 48
		1553			on line 48
48		1614			SOL. 48 (gravity) 18° 45.87; 66 07.23 W
		1645	5		Cse. 130°, sp. 6.9
		1800	5		Cse 137 SP 6.1 Rest Same
		1900			Cse 132 SP 5.0
↓		2105			End of Line 48 - starting turn UNIBOOM on Uniboom Roll 1
722	62	2137			START LINE 722
					Cse 265, SP. 8.0 kts
		2229			uniboom streamer peeled to reweight streamer. End Roll 1
		2251			End 722 - wires in streamer broke with addition of weight
748A		2309			Cse 287 SOL 47-48A 18°29.01 N; 65°57.70 W
		2345			c/c 295

Line	JD	GMT	Sweep	filter	cse/sp.	Comments
4748A	63	0400			293/7.4	18°42'42 N; 66°29'74 W
4748A	63	0516			287/7.4	EOL # 4748A
SOL #47	63	0556			227/6.6	SOL # 47
						18°44'.05 N
						66°41'.92 W
EOL ~~#47~~	63	~~0800~~			224.7/6.8	18° 33.98 N ~~stillen line for a few moments~~
EOL #47	63	0840			224/7.2	66°52.43 W
						18°31'36 N
						66°55'.40 W
SOL # 722C	63	0900			88.5/6.4	18°30'49 N
						66°[illegible] W
		0708	1/4 sec			[illegible] 1/4 sec sweep
	63	1000			120.3/7.0	18°30'13 N 66°46.60 W
		1013			c/c 129	
		1218			c/c 081	
		1228			c/c 041	1400 hr. chg/c. 075°
		1414	1/2 sec			Change to 1/2 sec Sweep Uniboom
			1/4 sec			
		1541 ~~[illegible]~~	1/2 sec			Change to 1/2 sec
		1615	1/4 sec 1745	600/1300 uniboom on		Off Uniboom
		1618				CSS
722		1800	1/4	600/1300		1828.01 65 46.8

Line	JD	GMT	Sweep	Filter	CSP/SP	
						EOL 722 Lat 18 28.0 N LON 65 46.8 W
	063	1800				
	063	1815	1/4	600/1300	100/7.5	Uniboom Transit to Line 24
	"	"	5se	25/125	"	Airgun and Roll 2 uniboom
						Uniboom - next roll # 3; filters 600/1300
24	063	1839			090/6.6	~~Start~~ line 24
						18° 25.45', 65° 44.07'
24	063	1900			090/6.9	Rest Same
		2000			090/6.8	Same
		2200			089/6.3	Same
24	~~Oct~~	0124			322°	EOL 24 c/c 322°
		0135			c/s 5 kts	pull in airgun for repair.
		0150			c/s 6.5 kts	→ 7.2 kts
		0213			c/s 5 kts	
		0237			c/s 6.5 kts	airguns in water - coming up to speed.
EOL # 54		0521			113/7.1	SOL # 54 Too deep for Uniboom 800> mts
		0612			172/6.8	Uniboom ~~start~~ at 0612 (54 mt. depth)
		0900				The quality of the lines is poor for the Uniboom
		1242				shutdown uniboom.
		1543	c/s 6		c	
		1607	c/s 8			
		1615				EOL 54 17° 19.8 65° 03.8 W
		1700			300/7.8	
		1712	4			4 sec sweep.
		1738			000/7.8	Change course to 000 towards Line 41
		1752				swinging to 090
41		1815	5			on line 41-SOL 17° 26.02 65° 11.86

Line	JD	GMT	Sweep	Filter	C/S	Comments
41	64		5	25/125	090/6.5	
41	064	1906			084/6.0	
		1917	4			CHG Scale .4/sec
		1919	5			
		22	5		091/6.1	Same
		2024	6			
		2100			078/6.1	
41	65	0000	6	25/125	95/6.0	
		0036	6	25/125	98/5.3	EOL 41 c/c 238
		0000				slow turn to line 56
		0340				abandon line 56 - because of heavy sea
		0420				DEADHEADING EAST ON LINE 40
		1613				change course to 270 from 090 to 40
		1653				Turn complete coming to Line 40
	66	1723	6	25/125	270/6.6	START LINE 40 LAT 17 30.03 N LON 64 34.534 W
		1900			268/7.2	LAT 17 30.03 N Long 64 47.49 W
		2000			269/7.2	Same
		2100			273/6.8	
		2200			270/6.3	
		2257				EOL 40 17° 30.1 beginterm 65° 14.2
SOL #39	66	0943	6	25/125	271/7.1	SOL # 39 17° 34.' 03 N 64 26.' 57 W
	066	1600			270/6.9	
39	066	1615	6	25/125	277/7.4	EOL 39 LAT 17 34.083 N LON 65 13.996 W
		1647				change course 045

Line	JD	GMT	SWP	Filter	C/S	Comments
38	066	1732	6	25/125	083/7.2	SOL 38 Lan 1738.01 Lon 6512.81
		1800				Abort Line 38 transit to E end
		1900			094/4.5	
		~~2032~~	~~5 sec~~			~~Chang Sweep T. 5 sec~~
		2100			084/6	Same
		2030			56/6	
5	067	0536	6	25/125	262/7.1	SOL #15 POSITION: 17°50'.70 N 64°21'.62 W
						Streamer in the water Uniboom on.
5	067	0630				depth 20 mts. Problems with
						the recorder Dave working on it
5	067	0633				~~Not~~ record very bad. depth 28 mts.
	067	0639				No record. depth 100 mts.
	067	0640				No record. depth 231 mts
	067	0642				Uniboom off depth 330 mts.
	067	0651				Streamer out of water. Problems
						with the electrical connections of
						the streamer. depth 530 mts.
		1225				New styli on Airgun records
		1300			268/5.8	
		1518	4			
		1556	6			EOLIS 65°45.00 W ; 17°50.
		1915				1747.85 6557.65
		1945			090/6.2	Guns Off Comp. Maint.

Line	JD	GMT	Sweep	Filter	C/S	Comments
15R	067	2005	6	25/125		Gunns On - reversing line
						because of navigation problems
						17°50.13; 65°53.95
SOL# 36 EAST	068	0615	6	25/125	263.9/7.5	17° 54'.89 N SOL#
						65° 01'.81 W 36 EAST
		1600			272/6.8	
		1736				avoiding shoal area
		1700			265/6.9	
		1813				Hard left + avoiding island
		1820				LAT 17 53.566 LON 66 30.121 EOL 36
		1835				system down - tangled after
						sharp turn
		1948				on line - seismic
		1950				on line 14 heading west
						17°53.46; 66°33.49
		2000			274/6.4	ON course for Line 14
		2030				17 54.03 66 37.69 SOL 14
		2100			269/6.7	
		2150				ABort Line 14 turn to E
		2200			120/6.5	
		2300			090/6.5	C/O 090
SOL# 15 WEST	069	0507				Start Line 15 17° 50.20 N
						(SOL# 15 WEST) 65° 58.20 W
		1600			270/6.9	
		1700			267/6.3	changed 4 sec Record to 1 sec delay and 4 sec Sweep
		1800			270/6.1	
		1845				EOL 15 LAT 17 50.1 lon 16 35.7

...ne	JD	GMT	Sweep filter		C/S	
14	069	1900			082/6.2	SOL 14 West To East 17°50.763 N 067°35.188 W
		~~1914~~				~~slow To Clutch for slow seismic~~
		2000			080/6.8	
		0330			c/c 015	
15	070	0510			85/6.4	SOL # 15 Fill West LAT. 17°49.87 N 66°32.13 W
	070	0708				A new roll of paper For Air-gun recorder 0032 to 0042
		1310				end line 15
		1345				abort cruise - return to port. Juan's wife in hospital.
		1355			c/c 003°	sp. 8.7 kts. heading To Roosevelt Roads.