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.

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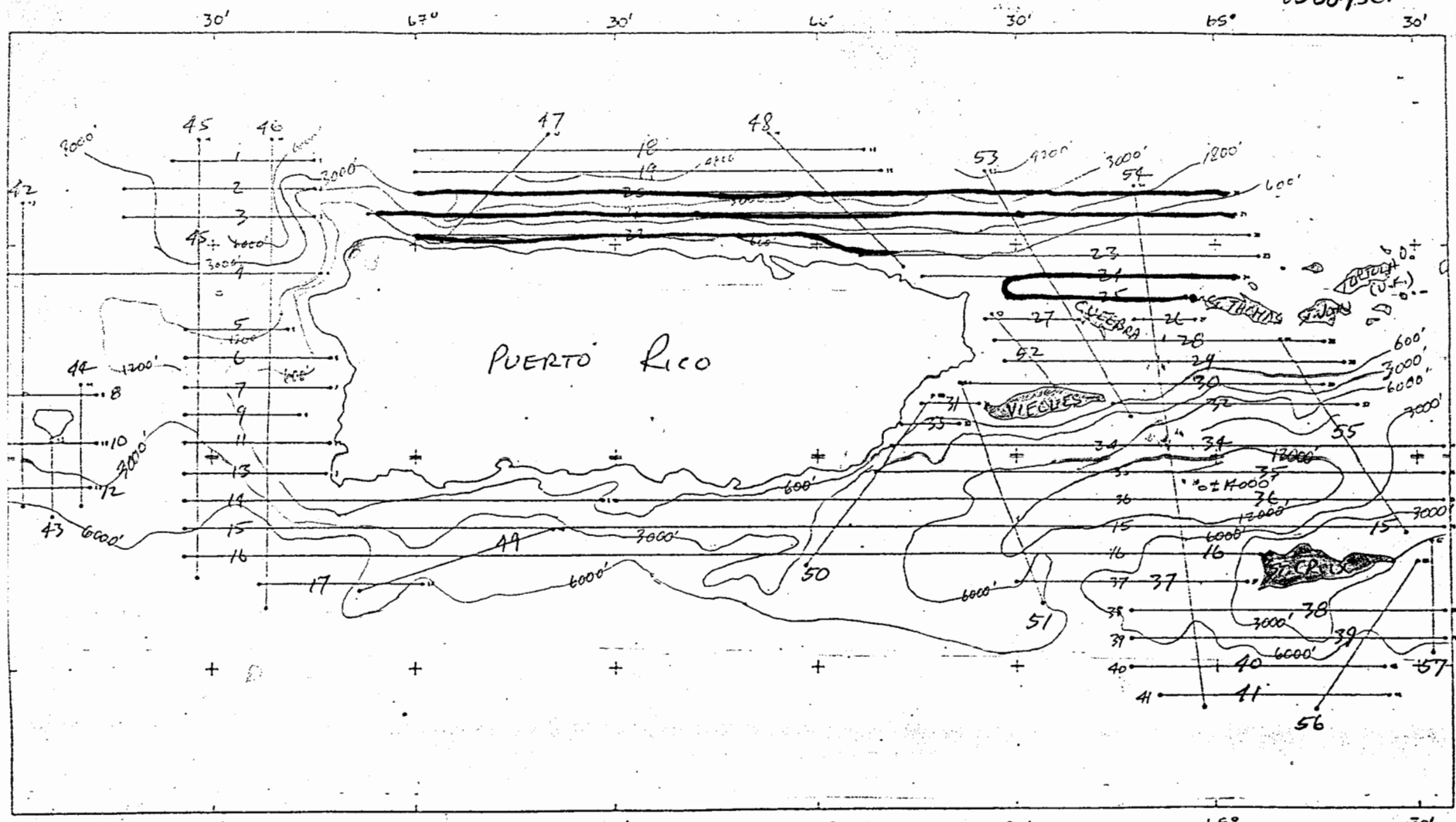

PUERTO RICO REGULAR SHIP TRACKS FOR PUERTO RICO AND U.S. VIRGIN ISLANDS

——— lines completed prior to seismic

Powell P-4-85

W Roosevelt Rds 1410Z JD 091

Personnel:

Byron	Ruppel	(Menlo)	
Jeff	Stampfer	(Menlo)	MTech
Larry	Kooker	(Menlo)	ETech
Gail	Kineke	(Woods Hole)	
Jeb	Palmer	(Woods Hole)	

Heading SE on Line 51.

Line	JD	GMT	Swp	Filt	Cse	Spd	Comments
51	91	1630	6sec	25/125	160	6kts	put streamer + guns in, no signal yet
							1 gun fair/ty (#1) going on #2
"	"	"	"	"	"	"	Unable to get any ~~[illegible]~~ signal on recorder
"	"	1900	"	"	"	"	EOL 51 → lost satellite control had to break off line and make for next line @ > 7 kts / Retrieved streamer + guns / No good data
"	"	1730	"	"	"		broken wire in streamer cable repaired by Larry Kooker / Began receiving signal, which proved to be no good / Trouble possibly due to sea state or speed of ship
							No 4 sec record
	92	0400					streamer & guns in, very noisy record 1 gun firing
38	92	0445	6sec	25/125	270	7kts	BOL 38 Rec #1 lots of noise, adjusting gain and threshold trying to get clearer record
"	"	"	4sec	"	"	"	Rec #2
38	"	0515	6sec	"	"	"	minor adjustments in gain, contrast, threshold
38	"	0700			270	7	smooth seas
38	"	0730					rec #2 glich, inadvertently put on 1sec delay,
38		[illegible]					then switched back
38		0755					speed up to 7.5 kts, slowed to 7kts
38		0955					speed 7.5 kts, smooth seas
38		1105				7.3	EOL 38
38A	92	1105	6sec	25/125	70	6	BOL 38A2 turning, transit to line 37
"	"	"	4sec	"	"		BOL 38A3 firing 1 air gun
38A		1130					c/s 7kts
		1150					c/s 8kts cse ~73°

Line	JD	GMT	Swp	Filt	Crs/Kts	Comments
38A	92	1240	6sec 4sec	25/125		turning, C/S 7 Kts unable to start at end of line due to Navy training, must start further offshore
38A	92	1300	6sec 4sec	25/125	275°	EOL 38A
37	"	"	"	"	7Kts	BOL 37 (airgun firing, record not as noisy as 8 Kts
37	"	1330	"	"	270 7Kts	course now 270°
37	"	1540	"	"	270/ 7Kts	smooth seas
37	"	1635	"	"	"	EOL turning to do crossties with #'s 15, 16, 36
37A	"	1635	"	"	0°	BOL turning north to (gun firing) cross 15, 16, 36 Then deadheading to E end of 36 / rolling seas
"	"	1705	"	"	"	c/delay to 2 sec on Rec # 2
"	"	1711	"	"	"	crosstie w/Line 16
"	"	1738	"	"	"	c/delay to 3sec on Rec #2
"	"	1745	"	"	"	lost GPS control
"	"	"	"	"	"	noticed screwy record after trying to change delay
"	"	1827	"	"	"	have turn and head for E end of Line 36 @ >8 knots. took gear out of water
36 East	93	0348	"	"	270/6kt	BOL 36 E extend using / gun seas good / will go to Xing Line 54 will need to be merged w/ other part of line
36	93	0529	4sec	"	"	c/delay rec #2 1sec 1-5 sec swp
36		0537	"			" " " 2-6sec
36	93	0817	6sec 4sec	"	270° 6Kts	smooth seas, water depth 4,356 m losing signal

Line	JD	GMT	Swp	Filt	Cse	Spd	Comments
36 East	93	1043	10sec 4sec	25/125Hz	270	6	EOL 36 EAST
36A	93	1044	6sec 4sec	"	turning	6	BOL 36A, turning
							still too deep to get much signal
36A	93	1120	"	"	65°	7	cse 65°
36A		1147	4sec				c/delay 3-7 sec
36A		1235	6sec 4sec				turning to start line 35
36A		1246	6sec 4sec		270°	6	EOL 36A
35 Fillin	"	"	"	"	"	"	BOL 35 Fill in rec#2 3sec delay 3-7sec
							interference w/outgoing pulse but better than nothing / 1 gun firing
35 Fillin	"	1500	6sec 4sec	25/125	270°	6	c/delay to 2sec (2-6 sec swp)
							record v. noisy
"	"	1605	"	"	"	6.7	lost 3rd satellite / on Trimble
"	"	1700	"	"	"	"	EOL 35 Fillin turning to
							go to E end Line 34 @ > 8 kts
							hauled in gear
34East	94	0327	"	"	"	7	BOL reducing east pt of Line 34
							(to 64°50') / using 1 gun / seas good
34East		0509	4sec				c/delay rec#2 2-6 sec
34East		0707	6sec 4sec	"		7	EOL 34 East, turning, BOL 550
550	94	0707	"	"			transit to southern endpoint of
							line 55 (Line 550 adjunct to line 55)
550	94	0730	"	"	110	7	cse 110°
"	"	0834	"	"	126	7	c/c 126°
		0845			126	6	4s 6kts
"	"	0945	4sec	"	"	"	c/delay 0-4 sec rec#2
550		1038			126	6	EOL 550
55A		1038			turning		BOL 55A (line from end 55 to start 56)
							crossing very shallow water

Line	JD	GMT	Swp	Filt	Cse	Spd	Comments
55A	94	1120	6sec 4sec	25/125	215	7	EOL 55A (not much record, too shallow)
56	94	1120	"	"	"	"	BOL 56 smooth seas
56	"	1353	4sec	"	"	7	c/delay 2-6 sec
56	"	1510	6sec 4sec	"	"	"	EOL 56
758	"	1510	"	"	turning	7	BOL 758 (from 56 to 16 at 65°15')
758	"	1538	"	"	308	7	smooth seas, 1 gun firing rec #2 delay 2-6 sec
"	"	1600	"	"	320	7	c/c 320°
"	"	1615	"	"	317	7	c/c 317°
"	"	1630	"	"	307	7	c/c 307°
"	"	1645	"	"	310	7	c/c 310°
"	"	1700	"	"	308	7	c/c 308
"	"	1746	"	"	"	"	lost GPS / sonar still tracking well
"	"	1756	"	"	"	"	c/delay 0-4 sec Rec #2 lost some data (was apparently watching secondary reflector)
"	"	1830	"	"	310	7	c/c 310°
"	"	1930	"	"	312	7	c/c 312°
"	"	2000	"	"	308	"	Something screw about record markings on rec #1 / will fix after finishing line / correct after 2000Z / c/c 308°
"	"	2100	"	"	"	"	turning to line 16 West
"	"	2114	"	"	"	"	EOL 758
16W	"	2115	"	"	245	7	BOL 16W still shaping into track line / will note when ship is on track / gun firing

Line	JD	GMT	Swp	Filt	Csc	Spd	
16W	94	2140	6sec 4sec	25/125	245	7	turning
"	"	2151	"	"	268	7	on line 16W @ 65 23.28
[redacted]							
"	"	2255	"	"	"	"	c/delay 2-6sec lost some date between 2230-2 + 2245Z on rec#2
"	"	2258	"	"	N280°	"	turning to hot track after sat fix (still on Dead Reckoning and NNSS)
"	"	2340	"	"	269	"	on track c/ 269
"	95	0007	"	"	"	"	c/delay rec#2 0-4sec wrote over data in marking record am going to throw myself overboard for such careless stupidity
"	"	0030	"	"	267	"	c/c 267°
"	"	0100	"	"	270	"	c/c 270°
"	"	0200	"	"	"	"	all is well / ship wandering a bit / still ahead of part of Line 16 not previously done.
"	"	0241	"	"	"	6	c/s 6kts / waiting for GPS
"	"	0300	"	"	"	7	c/s 7kts / got GPS / True BOL 16W
"	"	1000	"	"	"	"	smooth seas, all is well
"	"	1330	4sec	"	"	"	rec#2 c/delay 1-5sec
"	"	1557	"	"	"	"	EOL 16 West, turning to Line 17
16WB	95	1611	"	"	"	"	turning from 16W to 17
"	"	1629	"	"	120	6	on course 120°
"	"	1637	"	"	"	"	c/delay 2-6sec rec#2
"	"	1700	"	"	"	5	c/s 5 kts

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Line	ID	GMT	Swp	Filt	Csc	Spd	Comment
16WB	95	1730	6sec 45sec	25/125	?	5	turning to head for Line
							14 West / Seas rough
							No nav control / will keep
							shooting and use DR
"	"	1745	"	"	80	6	c/c 80° c/s 6 kts
"	"	1800	"	"	"	5	c/s 5
"	"	2000	"	"	"	4	c/s 4 seas very rough
"	"	2100	"	"	"	"	c/c 90°
"	"	2140	"	"	"	"	c/delay rec #2 1-5 sec
-	-	2215	-	-	-	-	c/c 110°
-	96	0000	-	-	90	5	c/c 90° c/s 5 seas rough
-	-	0095	-	-	80	-	c/c 80°
-	-	0100	-	-	-	5	c/delay rec #2 [redacted]
-	-	0115	-	-	-	6	c/s 6 kts
-	-	0200	-	-	-	7	c/s 7 kts
-	-	0315	-	-	-	7	c/delay rec#2 1-5 sec
							→ This was a total screw up
							The 12 hrs is getting to me
-	-	0330	-	-	60	7	c/c 60° GPS up
-	-	0345	-	-	-	-	hard turn
~~14~~	"	~~0400~~	"	"	~~270~~	7	~~EOL 14~~
-	-	0359	-	-	-	-	EOL 16 WB
14W	-	0400	-	-	270	7	SOL 14W
"		0500					careless[ness] abounds - writing over data
"	"	0700	"	"	267	"	water very shallow
14W	"	0835	4sec		~~270~~ 267	7	c/delay rec# to .01 sec trying to get
					"		rid of some interference with out-
							going pulse, no luck
"		0855	4sec		"	"	c/delay back rec# 2 0-4 sec

LINE	ID	GMT	sup	Filt	cse	spd	Comments
14W	96	1200	16sec 4sec	25/125	269	7	course over last eight hrs. has been 260-270° angling to SW rather than due west line 14W will be extended W to south of Isla de Mona
14W	96	1545	"	"	270°	7	EOL 14W
14WA	96	1545	"	"			BOL 14WA transit line to Nendpt of 49
"	"	1615	"	"	90	7	on course 96°
"	"	1725	"	"	"	"	lost GPS nav
"	97	0000	"	"	"	"	all is well using NNSS on transit to 49
"	"	0330	"	"	—	—	turning to Line 49/regained GPS
"	"	0339	"	"	"	"	end of Line 14WA
49	"	0340	"	"	252	7	BOL 49 / ahead of startpoint of line / on track
49	97	0735	"	"	252	7	trouble w/Magnavox not solving, updating using Trimble; 0800 back up
49	97	0800	"	"	"	"	EOL 49
49A		0800			250°		BOL 49A will turn to East to pick up 17
49A		0819		—		7	turning to East, rough seas
49A	97	0830			83°	7	course 83°
"	"	1022	4/sec	"	"	"	c/delay (see rec#2 1-5 sec
"		1107	16sec 4sec				EOL 49A
17	"	"	"	"	270	7	BOL 17
17		1430			270	7	EOL 17
Toto1	"	1430	"	"	341	7	BOL Toto1 Beginning transit to Tongue of ocean. Will try to do lines along the way.
"	"	1450	"	"	"	8	c/s 8 kts records v. noisy

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Line	JD	GMT	Swp	Filt	Csc	Spd	Comments
TOT Trans	097	1730	6sec 4sec	25/10	340	9	c/delay rec #2 0-4 sec / lost some data / Moral: Never go to the head while the water is shallowing / c/s 9kt
"	"	1750	"	"	"	"	Veering off course / Bridge is testing something
"	"	1830	"	"	350	"	c/c 350
"	"	1900	"	"	"	8	c/s 8kt
"	"	1915	"	"	340	"	c/c 340
"	"	2130	"	"	"	"	NNSS updates put us off line by ~2 miles / NO GPS since 1730
"	98	0012	"	"	"	"	turning to TOTO Trans. # 2 c/delay 1-5 sec / EOL TOTO trans 1
"	"	0013	"	"	294	"	SOL TOTO Trans 2 All is well
"	"	0057	"	"	"	"	c/delay 2-6 sec
"	"	0125	"	"	"	"	trying 2nd airgun
"	"	0158	"	"	"	"	back to 1 airgun
"	"	0300	"	"	"	"	back to 2 guns / Record is gone / water is too deep / Will give it a little longer
"	"	0325	"	"	"	"	EOL TOTO Trans 2 / Water too deep / nothing but noise / gun pulled signal lost at shallower than 6sec decided not to change sweep