OSU Oceanography
MARINE GEOLOGY CORING DATA SHEET

Vessel R/V Melville — Ship Station # ~~[illegible]~~ 03

Cruise: 1014 — Leg: _____ — Core Name & Station # MV1014-03-22JC

Mo/Day/Yr 11 / 07 / 2010 — Observer Alyssa

Latitude:	launch	08	D 30	.010 mir	N (S)	
	on bottom	08	D 30	.001 mir	N (S)	
Longitude:	launch	87	D 34	.950 mir	E (W)	
	on bottom	87	D 35	.000 mir	E (W)	

Navigation Type: Loran SatNav (GPS) PCODE other _____

	launched	on bottom	recovered	
Time:	1:30	3:28		(GMT)
Water Depth:	4355	4246		Meters
Wire:	0	4411		Meters

Sampler types
- ~~2.5" Piston Core - PC~~
- (4" Piston Core - JC)
- 4" Gravity (Big Bertha)-GC
- Gravity - GC
- Benthos Corer-GC
- Kasten - K
- Box Core - BC
- Multi Corer - MC
- Dredge - DR
- Rock Core - RC
- Shipek Grab - SG
- (Other TC)

Piston Core Length: 20 40 60 80 100 (other 50ft)

Scope: 27ft

Trigger Line Length: 62 ft

Safety Pin Size: / or Actuating Depth: /

Pinger (Meters above corehead): /

Tension:

At surface: 6048

Prior to trip: 12000

On Bottom: 8000

Pullout (max): _____

Ascending: _____

PC Section Number	Section Length (cm)	Cum Length (cm from top) Upper	Lower	Remarks

Other Samplers:

Type & No: Section Length:

Remarks:
2 pigs, 8 Pb weights on TC.

Revised 3/07

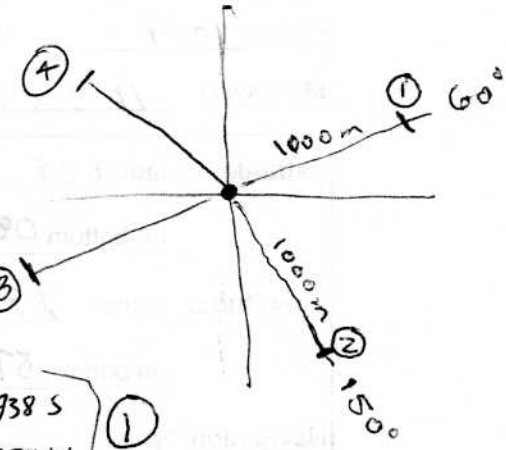
3:37 : stopped; wire out 4391 ; max tension 22599

tension avg. = 21,000

4:12 : wire out 4500 → ~~Ship drifted 1000 m to create an angle 15°~~

04:16 → tension released to 6300 lbs

04:11 → [redacted] 1000 m to create an angle of 15°
[redacted] Moving [redacted] NE
Heading 060



0457 → Lat. 08°29.782 S wire out to 4550
Long. 87°34.600 W 820 m after initial position

0505 → Arrival at new pulling out location [Lat. 08° 29. 738 S, Long. 87° 34. 524 W] (1)

0506 → hauling in wire at 10m/min [lat: 08° 29. 738S, long: 87° 34. 522W] NE of Core Site
wire out 4513.9 stopped max tension 22,753 lbs

(GMT) 0513 → Stop at 4507.1 wire out → Tension 21,500

06:46 → pay [redacted] out to 4600 ... new location (moving to) SE of core site

07:45 → LAT 08° 29.999 S
LONG 087° 35.002 W (2) hauling wire in
wire out 4513.3 tension: 21254.9
07:57
max tension: 21962,5

09:26 pay out to 4600 moving to new location SW of core site

10:32 at Site (3) SW of Core Location 8° 30.155 S, 87° 35.531 W

hauling wire in [redacted] 10:40 wire out 4508.7
tension: 21043.2
wire out held @ 4388 10:45 wire out 4502.6
max tension: 21731.8

(GMT) 22:10 - pay out wire & more 100m (port)
Goal is to work different section of wire when begin pulling
[redacted]

12:12 payout wire to release tension (to 4600m) (~6300 lbs tension)

12:17 moving to new location

12:58 in position # 4 1000m NW of core site

Lat: 08 29.550S

Long: 087 35.311 W

haul in wire @ 20 mpm to wire out 4540 m ~15,000 lbs tension

slow to < 10 mpm

13:12 Stop winch @ 4497.7m wire out

max tension 22310.7

14:41 PAYOUT WIRE TO 4550.1

14:47 BEGIN TRANSIT TO ~~ORIGINAL~~ EXACT CORE SITE

15:32 ARRIVED BACK ON TOP OF CORE

LAT: 08 30.000S

LON: 87 35.002 W

15:49 bringing wire in at 20m/min (to get rid of slack wire)

15:57 wire stop at 4410, tension ≈ 9400

15:57 wire in really slowly

16:02 wire stop at 4388.7 tension ≈ 21,500 (max tension 22398.9)

16:14 wire in slowly as possible, goal tension of 23,000

16:18 wire stop at 4388.4, tension ≈ 21,600 (max tension = 23,030.3)

22:10 Pay out wire to move 100m to port side - Goal is to move wire to less stressed section before we attempt to pull out.

22:22 Move 100m port side lat: 08 29.960S

long: 087 34.965 W

Wire out: 4450.2

tension: 6000 - 7000

Ready to pull in slack (~10 m/min stop ~15,000)

22:29 Wire out: 4399.4 Tension: ~16000, (we called NSF, needs to wait for answer)

Decided to increase tension to ~22,500 and hold [max tension: 23416 wire out: 4389.7]

22:46 Brake set Tension: ~22,000
Wire out: 4390.0

23:21 Captain okay to increase tension - attempt core pull-out

23:29 Winch out 10m to 4400.

23:31 Reset max tension wire out: 4400.1
tension: ~14,500

Haul in wire @ < 5 m/min

23:37 Traction unit quit. stop winch. wire out: 4384.6
tension: ~25,300
max tension: 26,321.0

23:39 Move ship in 5m increments to increase tension
Set winch brake tension: ~24,000
wire out: 4386.5

23:58 Hold ship position max tension 30,223.1 wire broke
~~max tension~~:
wire out: 4386.5

00:00 tension dropped: 383.4

I left my piston core in ~~Texas~~ the Peru Basin...