SQUARE DEAL

Leg 1, 2

78021 RV

COMPOSITION

CRUISE CURATOR LOG

R/V STATE ARROW

30 JULY - 9 AUG 1978

a Mead Product
Hulman Building, Dayton, Ohio 45402

Leg 1+2
STAR 100434
78021

CRUISE CURATOR LOG.

R/V STATE ARROW
SUBMERSIBLE CRUISE
SUB- AMBERJACK - MARTECK CREW

CRUISE DATES JULY 30, 1978 — AUG. 9, 1978

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(3)

SEISMIC RECORD ROLLS

SPARKER

Roll #1 2000 EDT 31 JULY, 1978 TO
0600 EDT 1 AUG, 1978
Folded + in Folder #1

Roll #2 2205 EDT 1 AUG, 1978 TO
0725 EDT 2 AUG, 1978
Folded + in Folder #1

Roll #3 2040 2 AUG, 1978 TO
0727 3 AUG, 1978
Folded + in Folder #1

Rolls # 1, 2, 3 - Sparker survey between Barkeley + Carteret Canyons on the Mid-Atlantic Slope

Roll #4 2350 EDT 4 AUG, 1978-
1345 EDT 5 AUG, 1978

Folded + in folder #2

Roll #5 1800 EDT, 6 AUG, 1978-
0445 EDT, 7 AUG, 1978

Folded + in Folder #2

Roll #6 2110 EDT, 7 AUG, 1978
0710 EDT, 8 AUG, 1978

Folded + in Folder #2

(3)

3.5 KHZ

Roll #1 1809 EDT 5 AUG, 1978 -
2115 EDT 5 AUG, 1978.

Folded + in Folder #3

(4)

MAGNETIC TAPES OF SEISMIC RECORDS

Reel #1 2022 31 July, 1978 –
0600 1 Aug, 1978
ch 1 - Trigger, ch 2 - 5 min marks, ch 3 sparker data, ch 4 - voice

Reel #2 2330 1 Aug, 1978
0732 2 Aug, 1978
ch 1 = trigger, ch 2 - 5 min marks, ch 3 - sparker data, ch 4 - voice.

Reel #3 2040 2 Aug, 1978 –
0727 3 Aug, 1978
ch 1 - trigger, ch 2 - 5 min marks, ch 3 - sparker data, ch 4 - voice.

Reel #4 2350, 4 Aug, 1978 –
1345, 5 Aug, 1978
ch 1 - trigger, ch 2 - 5 min marks, ch 3 sparker data, ch 4 - voice.

(5)

Reel #5 1800 EDT 6 AUG, 1978 -
0445 EDT 7 AUG, 1978

ch 1 - trig, ch 2 - 5 min mark, ch 3 sparker data, ch 4 voice

Reel #6 2027 EDT 7 AUG, 1978
0710 EDT 8 AUG, 1978

ch 1 - trig, ch 2 - 5 min mark, ch 3 sparker data, ch 4 - voice.

GRAB SAMPLES

SAMPLE 5000
DATE AUG 2, 1978 1922 EDT
START DOWN 1916 38° 53.46 N 72° 53.68 W
DOWN 1922 38° 53.48 N 72° 53.72 W
~~SURFACE~~ DEPTH 128 fm.

SAMPLE 5001
DATE AUG 2, 1978 1950 EDT
ON BOTTOM 1950 38° 53.39 N 72° 54.48 W
DEPTH 100 fm.

SAMPLE 5002
DATE AUG 2, 1978 2005 EDT
ON BOTTOM 2005 38° 52.96 N 72° 56.51 W
DEPTH 60 fm.

The above three samples were taken on the SW wall of Carteret Canyon.

(7)

SAMPLE 5003
DATE 8 AUG, 1978 0900 EDT
ON BOTTOM 0900 EDT 40° 31.24 N 67° 44.24 W
DEPTH 420 ft.

SAMPLE 5004
DATE 8 AUG, 1978 0915 EDT
ON BOTTOM 40° 31.87 N 67° 43.90 W
DEPTH 650 ft.

SAMPLE 5005
DATE 8 AUG, 1978 1000 EDT
ON BOTTOM 40° 32.64 N 67° 42.00 W
DEPTH 390 ft

Samples 5003 - 5005 TAKEN IN LYDONIA CANYON HEAD.

SUB DIVES TIMES ALL EDT

DIVE #1 1000-1100 30 JULY, 1978
LAUNCH 38° 05' N 73° 54' W 65 fms
RECOVER 38° 04' N 73° 54' W
OBSERVER - AARON

DIVE #2 1145-1255 30 JULY, 1978
LAUNCH 38° 03' N 73° 51' W 115 fms
RECOVER 38° 03.43 N 73° 51.88 W
OBSERVER TWICHELL

DIVE #3 1343-1510 30 JULY, 1978
LAUNCH 38° 06.3 N 73° 53.4 W 400 ft.
RECOVER 38° 06.35 N 73° 53.45 W
OBSERVER : BRYDON
LOCATION : S of Baltimore Canyon on shelf

DIVE #4 1540-1745 30 JULY, 1978
LAUNCH 38° 07.10 N 73° 52.00 W
RECOVER 38° 06.80 N 73° 51.67 W 155 fm.
OBSERVER : PHIPPS.
LOCATION : S of Baltimore Canyon on shelf.

DIVE #5 1836-1933 30 JULY, 1978
LAUNCH 38° 05.38 N 73° 53.34 W 420 ft.
RECOVER 38° 05.30 N 73° 53.40 W 480 ft.
OBSERVER BUTLER
LOCATION S of Baltimore Canyon on shelf.

DIVE #6 1055-1402 31 JULY, 1978
LAUNCH: 39° 03.6 N 72° 45.9 W
RECOVER: 39° 02.30 N 72° 46.02 W 1200 ft.
OBSERVER: Slater
LOCATION: Head of South Toms Canyon.

DIVE #7 0835-1040 1 AUG, 1978
LAUNCH 39° 02.89 N 72° 45.13 W ~750 ft.
RECOVER 39° 02.58 N 72° 45.81 W 1200 ft.
OBSERVER: TWICHELL
LOCATION: HEAD of South Toms Canyon.

DIVE #8 1130 - 1344 1 AUG, 1978
LAUNCH: 39° 02.33N 72° 46.64W 750 ft.
RECOVER 39° 01.92N 72° 46.73W
OBSERVER Bryden
LOCATION Head of South Toms Canyon

DIVE #9 1435-1644 1 AUG, 1978
LAUNCH: 39° 01.87N 72° 47.55W 660 ft.
RECOVER: 39° 01.50N 72° 47.32W ~900 ft.
OBSERVER: HAMPSON
LOCATION: HEAD OF SOUTH TOMS CANYON

DIVE #10 1736 - 1905 1 AUG, 1978
LAUNCH 39° 02.66N 72° 44.79W 900 ft.
RECOVER 39° 02.32N 72° 44.82W
OBSERVER AARON
LOCATION Head of South Toms Canyon

DIVE #11 0815-1149 2 AUG, 1978
LAUNCH 38° 54.41 N 72° 54.44 W 625 ft.
RECOVER 38° 53.28 N 72° 53.31 W
OBSERVER PHIPPS
LOCATION HEAD of CARTERET CANYON

DIVE #12 1400-1655 2 AUG, 1978
LAUNCH: 38° 55.27 N 72° 54.82 W 414 ft.
RECOVER: 38° 54.45 N 72° 54.5 W
OBSERVER: SLATER
LOCATION: Head of Carteret Canyon.

DIVE #13 0815-1045 3 AUG, 1978
LAUNCH: 38° 54.84 N 72° 53.16 W 855 ft.
RECOVER: 38° 54.84 N 72° 53.31 W 1200 ft.
OBSERVER: Twichell
LOCATION: Head of Carteret Canyon.

DIVE #14 1141 - 1421 3 AUG, 1978

LAUNCH: 38° 57.17 N 72° 51.09 W 616 ft.

RECOVER: 38° 56.18 N 72° 50.97 W ~1080 ft.

OBSERVER: AARON

LOCATION: Shelf break + upper slope between Carteret + Berkeley Canyons.

DIVE #15 1459 - 1628 3 AUG, 1978

LAUNCH: 38° 58.96 N 72° 49.32 W 645 ft.

RECOVER: 38° 58.60 N 72° 49.58 W

OBSERVER: HAMPSON

LOCATION: Shelf break + upper slope between Carteret + Berkeley Canyons.

DIVE #16 0736 - 1048 4 AUG, 1978

LAUNCH: 40° 00.61 N 69° 37.97 W 480 ft.

RECOVER: 40° 01.00 N 69° 37.66 W

OBSERVER: SLATER

LOCATION: Head of Veatch Canyon.

DIVE #17 1203-1441 4 AUG, 1978
LAUNCH 40° 00.53 N 69° 37.48 W 560 ft.
RECOVER 40° 00.32 N 69° 37.30 W
OBSERVER AARON
LOCATION Slump in head of Veatch Canyon.

DIVE #18 1815-2023 4 AUG, 1978
LAUNCH 40° 00.27 N 69° 37.40 W 560'
RECOVER 40° 00.24 N 69° 37.24 W
OBSERVER : TWICHELL
LOCATION : Slump area in head of Veatch Canyon.

DIVE #19 1430-1715 5 AUG, 1978
LAUNCH 40° 00.30 N 69° 37.65 W 440'
RECOVER 39° 59.96 N 69° 37.43 W
OBSERVER : BRYDEN
LOCATION : Slump area in head of Veatch Can

DIVE #20 0840-1030 6 AUG, 1978

LAUNCH 40° 25.2N 67° 39.1W

RECOVER 40° 25.5N 67° 39.8W

OBSERVER AARON

LOCATION Head of Lydonia Canyon.

DIVE #21 1130-1350 6 AUG, 1978

LAUNCH: 40° 24.57N 67° 42.72W ?? 510'

RECOVER: 40° 24.53N 67° 42.71W

OBSERVER PHIPPS

LOCATION Head of Lydonia Canyon.

DIVE #22 1504-1628 6 AUG, 1978

LAUNCH 40° 25.84N 67° 41.34W 480 ft.

RECOVER 40° 25.58N 67° 40.96W 770 ft.

OBSERVER HAMPSON

LOCATION: Head of Lydonia Canyon.

DIVE #23 0625 - 1110 7 AUG, 1978

LAUNCH 40° 50.77N 67° 23.74W 280ft.

RECOVER 40° 50.86N 67° 24.27W

OBSERVER : BRYDEN

LOCATION : Tripod site SE of Georges Bank

DIVE #24 1431 - 1640 7 AUG, 1978

LAUNCH: 40° 29.96N 67° 41.46W 540'

RECOVER: 40° 29.07N 67° 41.99W 605 ft

OBSERVER: SLATER

LOCATION : Head of Lydonia Canyon.

TABULATED DATA.

MID-ATLANTIC DATA.

SPARKER. 11 + 12 + 12 + 7 = 42 nm.

12 + 14 + 6 = 32 nm.

12 + 11 + 13 + 12 = 48 nm.

122 nm.

VEATCH

SPARKER 12 + 12 + 13 + 14 + 5 + 15 + 4 = 75 nm.

3.5 KHZ 7 + 5 + 3 = 15 nm.