



EVOS
GC
1552
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S42
1989
v.4

[Shoreline evaluations, 1989].

Volume 4

Eleanor Island, Ingot Island, Disk Island, Block Island, Entrance Island, Sphinx Island

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LIST OF KEY CODES USED ON SHORELINE CLEANUP EVALUATION FORMS

pg-3

ISLANDS (Locations)

Naked Is.	NA
Peak Is.	PE
Stoney Is.	ST
Eleanor Is.	EL
Ingot Is.	IN
Block Is.	BL
Entrance Is.	EN
Sphinx Is.	SP
Disk Is.	DI
Knight Is.	KN
Smith Is.	SM
Seal Is.	SE
Applegate Is.	AP
Green Is.	GR
L. Green Is.	LG
Agnes (Bass) Is.	AB
L. Smith Is.	LS
Gore Point	GP
Montague Is.	MN
Aguliak Is.	AG
Squirrel Is.	SL
New Year Is.	NY
Murray Is.	MU
Squire Is.	SQ
Crafton Is.	CR
Pt. Nowell	PN
Junction Is.	JU
Chenega Is.	CH
Pleiades Is.	PL
Bainbridge Is.	BA
Flemming Is.	FL
Evans Is.	EV
Elrington Is.	ER
Latouche Is.	LA
Danger Is.	DA

* GEOLOGIC SEDIMENT TYPE

Boulder (>256mm)	B
Cobble (64-256)	C
Pebble (4-64)	P
Granule (2-4)	G
Sand (0.06-2)	S
Mud (less 0.06)	M
Rock	R

** DEGREE OF OILING

Heavy	HV
Moderate	MD
Light	LT
No Oil	NO
Unobserved	UN

AREA OF BEACH IMPACT

Supratidal (+SHWL)	SU
HWL to SHWL	SP
Upper 1/3 ITZ	H
Middle 1/3 ITZ	M
Lower 1/3 ITZ	L

ADEC IMPACT SURVEY

Heavy	HVY
Moderate	MOD
Light	LT
No Oil	NO
Unobserved	UNOBS

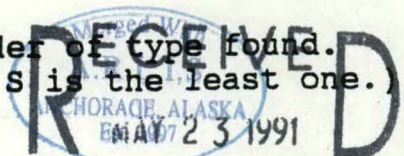
SHORELINE TYPE

Beach	BEA
Cove	COV
High Angle	HANG
Low Angle	LANG
Vertical	VER
Headland	HLD
Spit	SPI

Comments:

* Multiple entry is acceptable, use decreasing order of type found.
(ie. C/G/S where C is most predominant type and S is the least one.)

** Heavy (>6m wide and/or >1.0 cm thick)
Moderate (3-6m wide and/or 0.2-1.0 cm thick)
Light (0.1 -3m wide and/or <0.2 cm thick)
No Oil (free of visible oil)



Oil Spill Public Information Center
845 G Street
Anchorage, AK 99501

BEACH LEVEL

SUPRATIDAL (+SHWL)	SU
HWL to SHWL	SP
UPPER 1/3 ITZ	H
MIDDLE 1/3 ITZ	M
LOWER 1/3 ITZ	L

SEDIMENT TYPE

BOULDER (> 256 mm)	B
COBBLE (64 - 256)	C
PEBBLE (4 - 64)	P
GRANULE (2 - 4)	G
SAND (0.06- 2)	S
MUD (< 0.06)	M
ROCK	R

Can use multiple entries e.g. C/G/S; in which case the first letter is the predominant sediment type and the following are in decreasing order

KEY

LOCATION PREFIX

NAKED IS	NA
PEAK IS	PE
STOREY IS	ST
ELEANOR IS	EL
INGOT IS	IN
BLOCK IS	BL
ENTRANCE IS	EN
SPHINX IS	SP
DISK IS	DI
KNIGHT IS	KN
SMITH IS	SM
SEAL IS	SE
APPELGATE IS	AP
GREEN IS	GR

LOCATION SUFFIX

A unique number which identifies the distinct segment described in this report.

C:\WP\DATA\SHOREVAL.1

SHORELINE PRE-CLEANUP ASSESSMENT BLOCK REPORT

Location (see enclosed map): Upper Passage Block

(W. side Channel, NW side Ingot, Entrance, Spill Block I)

Includes Shoreline Segments: EL-10, EL-11, BL-12, EL-13, EL-14,

IN-20, IN-21, IN-22, IN-33, SP-19, SP-43, SP-44, EN-45, EN-46

Submitted : *AP McAdam* Date: 4-21-89
(for Exxon)

FOSC Approval: *CS Nollman* Date: 4-23-89

Distribution:

Exxon Shoreline Coordinator
Exxon Shoreline Supervisor
Exxon SCAT file

FOSC

NOAA
EPA
USDA (FS)
USFW
A.DEC
A.FG
A.DNR

PWSCA

*master
APPRAISAL
File*

SHORELINE CLEANUP PROGRAM

DATE: April 21, 1989

SHORELINE SEGMENT EL-10

LOCATION: (see enclosed map) Cove between Eleanor and Block Island

ADEC No. 07

SHORELINE ASSESSMENT DATE: 4/15/89

Recommended Cleanup Activity(ies):

Washing/flooding
Warm water at moderate/high pressure
Low/high pressure washing

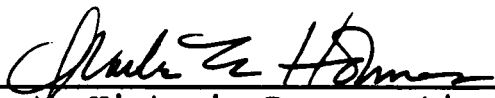
Priorities Considerations:

Ecological Constraints (from site survey):

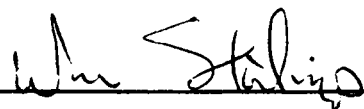
Do not dislodge rockweed holdfast or mussels .

Archeological Constraints (from site survey):

If heretofore undiscovered cultural material is uncovered during cleanup, contact Exxon archaeologist C. Mobley immediately.


State Historic Preservation Officer *

Date: 4/21/89

EXXON: 

Date: 5/4/89

FOSC: _____

Date: _____

* Signature required to satisfy stipulations in Alaska DNR
Tideland Permits.

SHORELINE OIL EVALUATION

[revised 11 Apr 89]

Date: April / 15 / 89Observer: G. SerjTime: 12 h 20 mWeather: (Sun)/Cloud/Rain/Snow/Fog**LOCATION**LOCATION Eleanor IslandSITE ADCC 007LOCATION PREFIX ELLOCATION SUFFIX 10

LATITUDE: 6 d _____ m _____ s LONGITUDE: 147 d _____ m _____ s

LENGTH OF SHORELINE SEGMENT: 300 mACCESS: Foot/Vehicle/Boat/Barge/Helio/Float Plane**SHORELINE****SHORELINE CHARACTER:**Open Coast ✓ main Sheltered Coast _____Rock (Y/N) Vertical/High Angle/Low AngleSediment (Y/N) Beach/SPit/Cove

SEE IT

SEDIMENT TYPE: B / C / P / G / S / M / R

OILLOCATION OF OIL: SU / (SP) / (H) / (M) / (L)CONTINUOUS: (Y/N) WIDTH OF CONTINUOUS BAND: 25 mPATCHY: 10 / 20 / 30 / 40 / 50 / 60 / 70 / 80 / 90 % coverage

EST. OIL THICKNESS: _____ cm EST. OIL PENETRATION: _____ cm

POOLED OIL: (Y/N) "FREE" OIL: (Y/N) WEATHERED: Y/N**DOCUMENTATION**

VTR: Y/N Tape Number(s) _____

PHOTOGRAPHY: Y/N Roll Number(s) _____

SAMPLE NUMBERS COLLECTED: _____

Eleanor Island

ECOLOGICAL EVALUATION

LOCATION 5-L-10

SITE 10

OBSERVER Hardin

DATE 9/15/1989

TIME (HHMM) 1220

TIDE HT. (m) _____

OILED ZONE: SPLASH HIGH MED LOW

SUBSTRATUM: ROCKS BOULDER COBBLE GRAVEL SAND MUD

LIVE BIOTA / DENSITY (#/m² or %cover-algae):

Fucus <10% Mytilus patches ²⁰⁰ Balanus <50 Littorina <1

Nucella _____ Pagurus _____ Limpets <1 Halosaccion _____

Gelidium _____ Other Green filament (sponges oil)

Oil Damaged Biota Balanus, Mytilus, Limpets are dying

Clean-up Precautions None except try to avoid dislodging Fucus holdfasts and Mytilus

OILED ZONE: SPLASH HIGH MED LOW

SUBSTRATUM: ROCKS BOULDER COBBLE GRAVEL SAND MUD

LIVE BIOTA / DENSITY (#/m² or %cover-algae):

Fucus _____ Mytilus _____ Balanus _____ Littorina _____

Nucella _____ Pagurus _____ Limpets _____ Halosaccion _____

Gelidium _____ Other _____

Oil Damaged Biota _____

Clean-up Precautions _____

MAMMALS (#): OTTERS _____ HARBOR _____ DALL _____ OTHER _____

OTHER _____

BIRDS: None

GENERAL OBSERVATIONS: Evidence of oiled bird being devoured by a predator and predator trying to wipe oil off itself.

SHORELINE CLEANUP PROGRAM

DATE: April 15, 1989

Shoreline Segment: EL-10

Shoreline Assessment Date: 4/15/89

Recommended Cleanup Activity(ies):

Clean-up recommended on basis of oil quantity, and ADEC site

TEST VIKOVAK

FLOOD-wash

steam cleaning

med/high pressure washing

*(James Smith
Island test
relocated
for safety
reasons)*

Ecological/Arch. Constraints:

Ecological: None except do not dislodge rockweed holdfasts or mussels

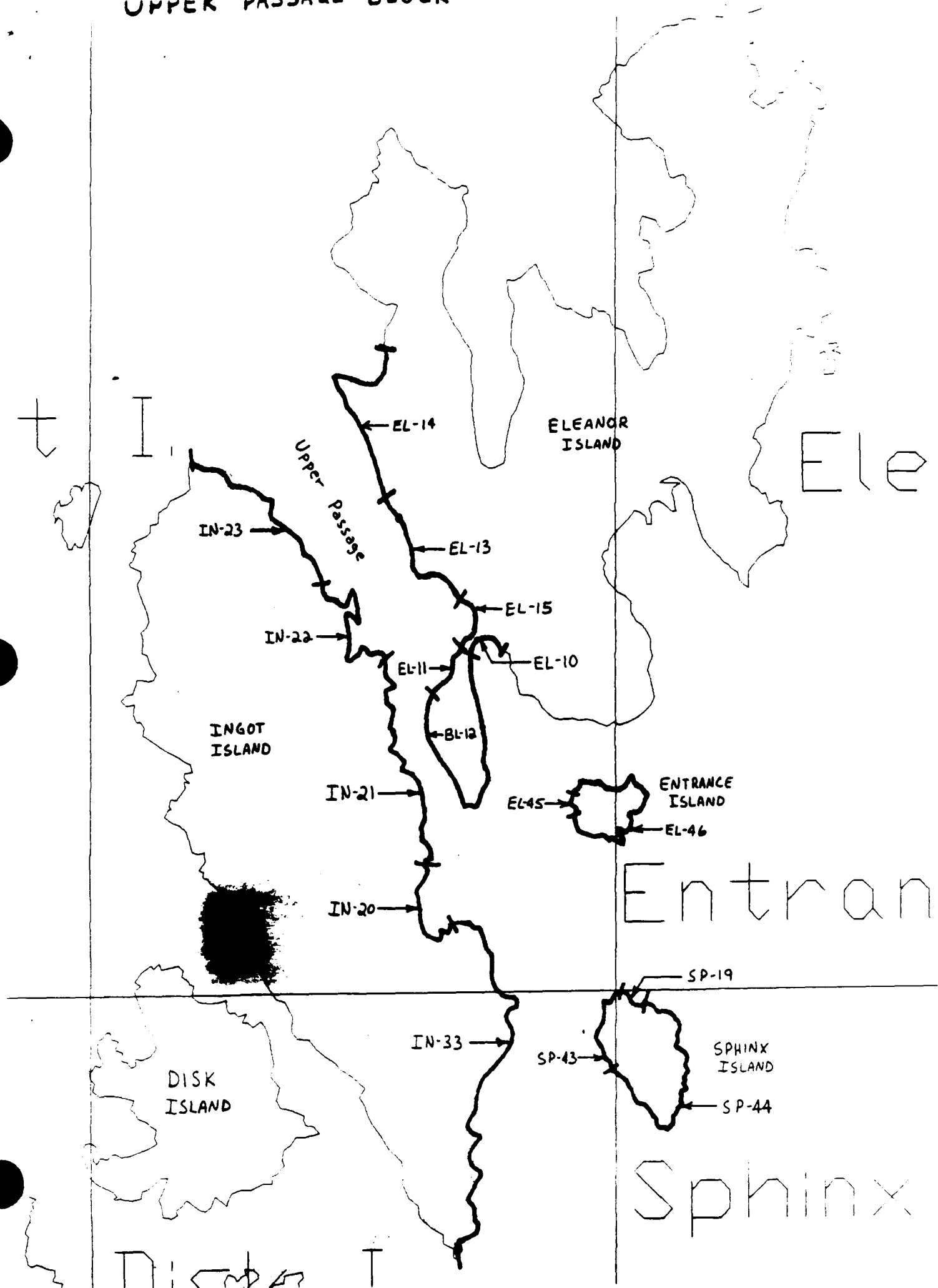
Archaeological: None, except if clean-up crew observes heretofore undiscovered cultural material - notify Exxon archaeologist C. Mobley

EXXON: *[Signature]* Date: 4-15-89

OSC: *[Signature]* Date: 4-15-89

*Submitted
OK
15 Apr '89*

UPPER PASSAGE BLOCK



SHORELINE CLEANUP PROGRAM

DATE: April 21, 1989

SHORELINE SEGMENT EL-11

LOCATION: (see enclosed map) West and southwest sides of Block Island

ADEC No. 07

SHORELINE ASSESSMENT DATE: 4-15-89

Recommended Cleanup Activity(ies):

Washing/flooding
Warm water at moderate/high pressure
Low/high pressure washing

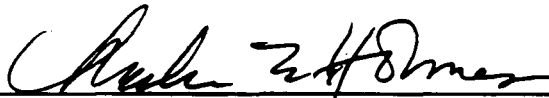
Priorities Considerations:

Ecological Constraints (from site survey):

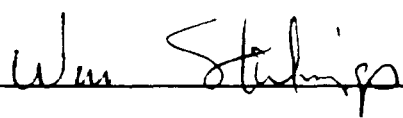
Do not dislodge rockweed holdfasts or mussels .

Archeological Constraints (from site survey):

Avoid crew activity within the treeline in the central 2/3 of segment. If heretofore undiscovered cultural material is uncovered, contact Exxon archaeologist C. Mobley immediately .


State Historic Preservation Officer *

Date: 4/21/89

EXXON: 

Date: 5/4/89

FOSC: _____

Date: _____

* Signature required to satisfy stipulations in Alaska DNR
Tideland Permits.

SHORELINE OIL EVALUATION

[revised 11 Apr 89]

Date: April / 15 / 89Observer: G. SerayTime: 10 h 20 mWeather: Sun/Cloud/Rain/Snow/Fog**LOCATION**LOCATION Lleanor Island SITE ADEC *07LOCATION PREFIX EL LOCATION SUFFIX 11LATITUDE: 6 d m s LONGITUDE: 147 d m sLENGTH OF SHORELINE SEGMENT: 500 mACCESS: Foot/Vehicle/Boat/Barge/Helio/Float Plane**SHORELINE****SHORELINE CHARACTER:**Open Coast Sheltered Coast ✓Rock Y/N

Vertical/High Angle/Low Angle

Sediment Y/NBeach/SPit/Cove

SEE MAP

SEDIMENT TYPE: B / C / P / G / S / M / R

2° / 10° / 3°**OIL**LOCATION OF OIL: SU / SP / H / M / LCONTINUOUS: Y/N WIDTH OF CONTINUOUS BAND: 15

PATCHY: 10 / 20 / 30 / 40 / 50 / 60 / 70 / 80 / 90 % coverage

EST. OIL THICKNESS: <0.5 cm EST. OIL PENETRATION: 3 cmPOOLED OIL: Y/N"FREE" OIL: Y/N

WEATHERED: Y/N

DOCUMENTATIONVTR: Y/N Tape Number(s) PHOTOGRAPHY: Y/N Roll Number(s) SAMPLE NUMBERS COLLECTED:

EL-11

ECOLOGICAL EVALUATION

LOCATION Fernand Island SITE 11 OBSERVER Gardner
 DATE 4 / 15 / 1989 TIME (HHMM) 1030 TIDE HT. (m) _____

OILED ZONE: SPLASH HIGH MED LOW

SUBSTRATUM: ROCKS BOULDER COBBLE GRAVEL SAND MUD

LIVE BIOTA / DENSITY (#/m² or %cover-algae):

Fucus 20% Mytilus <1 Balanus <50 Littorina <25

Nucella _____ Pagurus _____ Limpets <1 Halosaccion _____

Gelidium _____ Other _____

Oil Damaged Biota Barren rocks, Limpets, Littorines are dying; many dead
Limpets with fresh tissue still on shells
 Clean-up Precautions None, except use pressure low enough to avoid removing
Fucus holdfasts and Mytilus clumps.

OILED ZONE: SPLASH HIGH MED LOW

SUBSTRATUM: ROCKS BOULDER COBBLE GRAVEL SAND MUD

LIVE BIOTA / DENSITY (#/m² or %cover-algae):

Fucus _____ Mytilus _____ Balanus _____ Littorina _____

Nucella _____ Pagurus _____ Limpets _____ Halosaccion _____

Gelidium _____ Other _____

Oil Damaged Biota Could not observe

Clean-up Precautions _____

MAMMALS (#): OTTERS _____ HARBOR _____ DALL _____ OTHER _____

OTHER _____

BIRDS: None

GENERAL OBSERVATIONS: Biota is very weak (toxicity perhaps), continuous
coverage of oil from 14 ft tide line and as far as could be seen.

SHORELINE CLEANUP PROGRAM

DATE: April 15, 1989

Shoreline Segment: EL-11

Shoreline Assessment Date: 4/15/89

Recommended Cleanup Activity(ies):

Recommended on basis of oil quantity and re-oiling potential

TEST VIKOVAK

FLOOD-WASH

STEAM CLEANING

MED/HIGH PRESSURE WASHING

(James Smith
Island rest
relocated
for safety
reasons)

Ecological/Arch. Constraints:

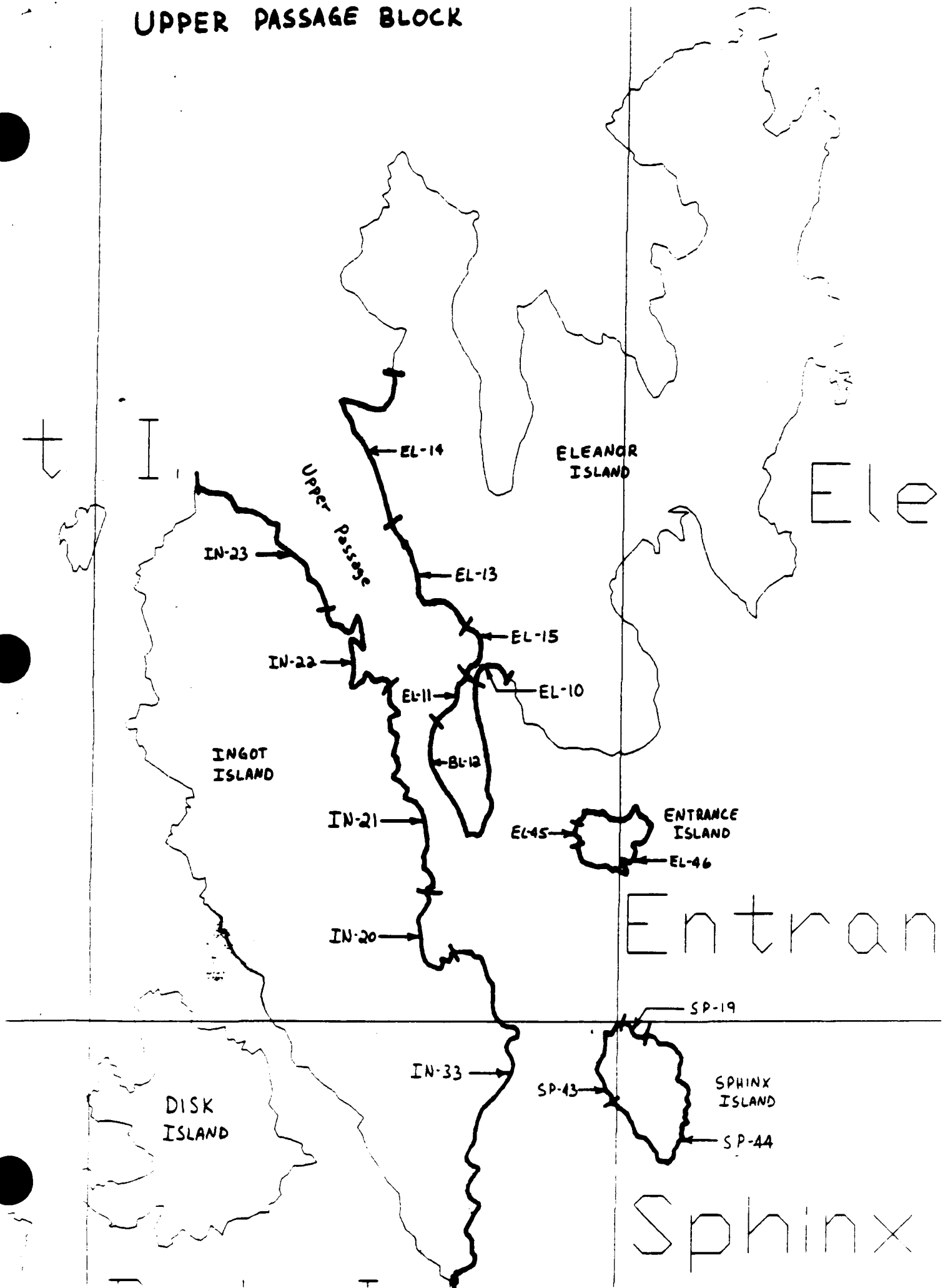
Ecological: None except do not dislodge rockweed holdfast or mussels.

Archaeological: Avoid crew activity within the treeline in the central 2/3 of the segment. If clean-up crew observes heretofore undiscovered cultural material - notify Exxon archaeologist C. Mobley.

EXXON: *[Signature]* Date: 4-15-89
OSC: *[Signature]* Date: 4-15-89

Submitted
[Signature]
15 April 89

UPPER PASSAGE BLOCK



SHORELINE CLEANUP PROGRAM

DATE: April 21, 1989

SHORELINE SEGMENT BL-12

LOCATION: (see enclosed map) Eastern side of Block Island.

ADEC No. 07

SHORELINE ASSESSMENT DATE: 4-15-89

Recommended Cleanup Activity(ies):

Warm water at moderate/high pressure
Low/high pressure washing

Priorities Considerations:

Ecological Constraints (from site survey):

Leave fucus holdfast in place, leave mytilus clumps.

Archeological Constraints (from site survey):

If heretofore undiscovered cultural material is uncovered, contact Exxon archaeologist C. Mobley immediately.

Charles E. Adams
State Historic Preservation Officer *

Date: 4/21/89

EXXON: Wm Stalings

Date: 5/4/89

FOSC: _____

Date: _____

* Signature required to satisfy stipulations in Alaska DNR
Tideland Permits.

SHORELINE OIL EVALUATION

[revised 11 Apr 89]

Date: 15 / 89Observer: Ken LybrookTime: 14 h 00 mWeather: Sun / Cloud / Rain / Snow / Fog**LOCATION**LOCATION Block IslandSITE Entire island between EL 11 and ELLOCATION PREFIX E.L.SEGMENT NUMBER 12
LOCATION SUFFIXLATITUDE: 6 d m s LONGITUDE: 147 d m sLENGTH OF SHORELINE SEGMENT: 2000 mACCESS: Foot / Vehicle / Boat / Barge / Helio / Float / Plane**SHORELINE****SHORELINE CHARACTER:**Open Coast Sheltered Coast ✓Rock Y/NVertical / High Angle / Low AngleSediment Y/N

Beach / SPit / Cove

SEDIMENT TYPE: B / C / P / G / S / M / R**OIL**LOCATION OF OIL: SU / SP / H / M / L

3-10 m

CONTINUOUS: Y/NWIDTH OF CONTINUOUS BAND: mPATCHY: 10 / 20 / 30 / 40 / 50 / 60 / 70 / 80 / 90 % coverageEST. OIL THICKNESS: 5 x cmEST. OIL PENETRATION: 3 cmPOOLED OIL: Y/N"FREE" OIL: Y/NWEATHERED: Y/N**DOCUMENTATION**VTR: Y/N Tape Number(s) PHOTOGRAPHY: Y/N Roll Number(s) SAMPLE NUMBERS COLLECTED: Prepared by Ken E. Lybrook USFS

ECOLOGICAL EVALUATION

LOCATION Block Island SITE = 2 OBSERVER De

DATE 4 / 15 / 1989 TIME (HHMM) 1400 TIDE HT. (m)

OILED ZONE: SPLASH HIGH MED LOW

SUBSTRATUM: ROCKS BOULDER COBBLE GRAVEL SAND MUD

LIVE BIOTA / DENSITY (#/m² or %cover-algae):

Fucus 30 Mytilus 5 Balanus 1 Littorina

Nucella Pagurus Limpets 5 Halosaccion

Gelidium Other filamentous green

Oil Damaged Biota biota dying, Fucus may survive

Clean-up Precautions leave Fucus and fast in place, leave right
in up

OILED ZONE: SPLASH HIGH MED LOW

SUBSTRATUM: ROCKS BOULDER COBBLE GRAVEL SAND MUD

LIVE BIOTA / DENSITY (#/m² or %cover-algae):

Fucus Mytilus Balanus Littorina

Nucella Pagurus Limpets Halosaccion

Gelidium Other

Oil Damaged Biota

Clean-up Precautions

MAMMALS (#): OTTERS HARBOR DALL OTHER

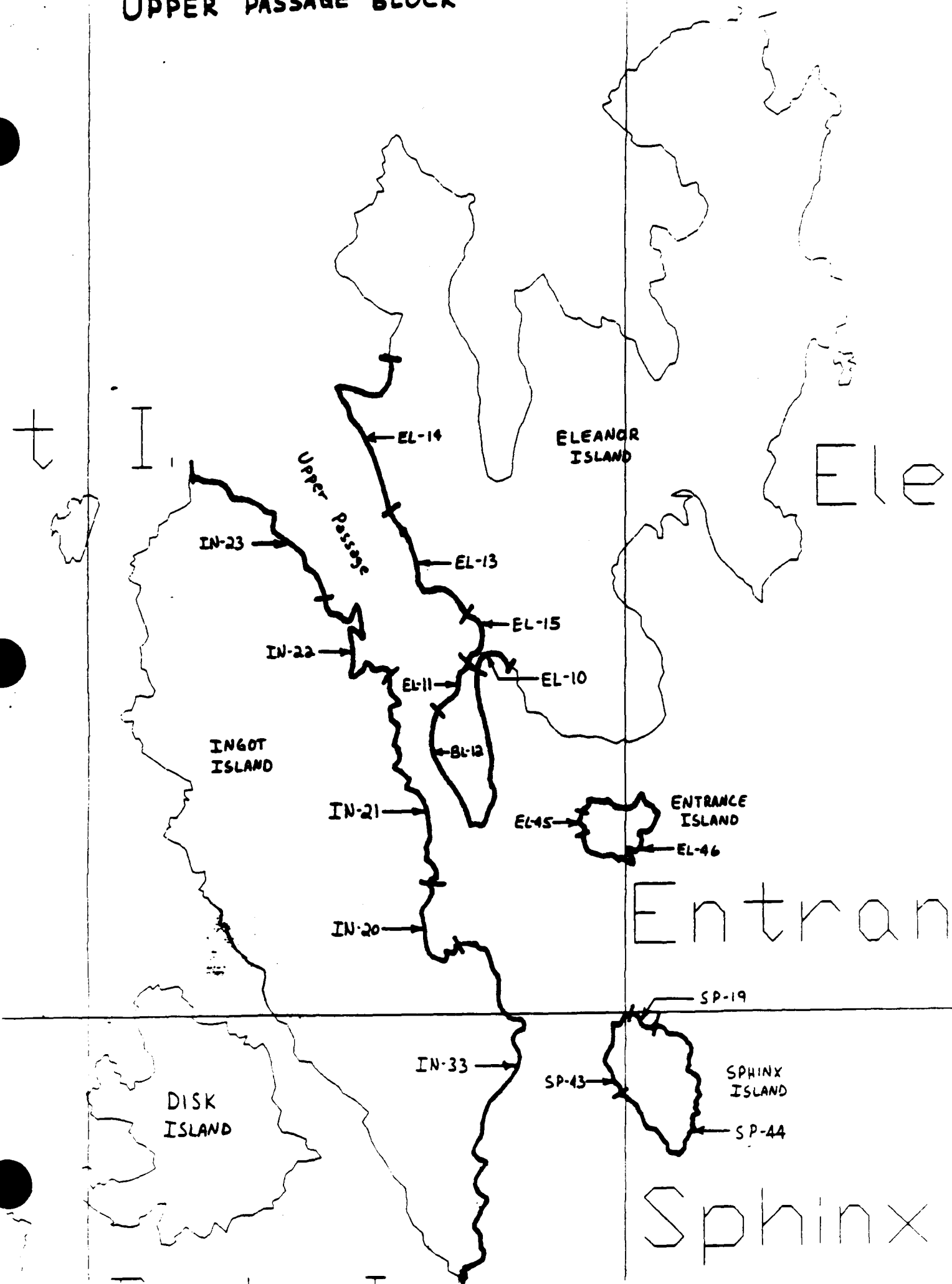
OTHER No mammals observed

BIRDS: 1 eagle, 1 cormorant

GENERAL OBSERVATIONS: complete oiling, all birds

prepared by Kenneth E. Holbrook USFS

UPPER PASSAGE BLOCK



SHORELINE CLEANUP PROGRAM

DATE: April 21, 1989

SHORELINE SEGMENT EL-13

LOCATION: (see enclosed map) North of Ingot Cove

ADEC No. 30

SHORELINE ASSESSMENT DATE: 4-15-89

Recommended Cleanup Activity(ies):

Washing/flooding
Warm water at moderate/high pressure
Low/high pressure washing

Priorities Considerations:

Ecological Constraints (from site survey):

Leave fucus and mytilus in place. No high pressure washing on spit - protect and preserve mytilus.

Archeological Constraints (from site survey):

If heretofore undiscovered cultural material is uncovered, contact Exxon archaeologist C. Mobley immediately

Mark E. Adams
State Historic Preservation Officer *

Date: 4/21/89

EXXON: Wm. Stuhling

Date: 5/4/89

FOSC: _____

Date: _____

* Signature required to satisfy stipulations in Alaska DNR Tideland Permits.

SHORELINE OIL EVALUATION

[revised 11 Apr 89]

Date: 4 / 5 / 89Observer: Karl Heinsohn / MattsonTime: 8:30 h m

Weather: Sun/Cloud/Rain/Snow/Fog

LOCATIONLOCATION earlSITE North of Ingot CoveLOCATION PREFIX ELSEGMENT NUMBER 13LOCATION SUFFIX 13LATITUDE: 6 d m s LONGITUDE: 147 d m sLENGTH OF SHORELINE SEGMENT: 1500 mACCESS: Foot/Vehicle/Boat/Barge/Helio/Float Plane**SHORELINE****SHORELINE CHARACTER:**Open Coast Sheltered Coast Rock Y/NVertical/High Angle/Low AngleSediment Y/N

BEach/SPit/Cove

SEDIMENT TYPE: B / C / P / G / S / M / R**OIL**LOCATION OF OIL: SU / SP / H / M / L

3 to 10 m

CONTINUOUS: Y/N WIDTH OF CONTINUOUS BAND: m

PATCHY: 10 / 20 / 30 / 40 / 50 / 60 / 70 / 80 / 90 % coverage

EST. OIL THICKNESS: 5+ cm EST. OIL PENETRATION: 12 cmPOOLED OIL: Y/N"FREE" OIL: Y/NWEATHERED: Y/N**DOCUMENTATION**VTR: Y/N Tape Number(s) PHOTOGRAPHY: Y/N Roll Number(s) SAMPLE NUMBERS COLLECTED:

ECOLOGICAL EVALUATION

LOCATION Eleanor Is SITE #13 AS OBSERVER Don Ho

DATE 4 / 15 / 1989 TIME (HHMM) 1500 TIDE HT. (m) _____

OILED ZONE: SPLASH HIGH MED LOW

SUBSTRATUM: ROCKS BOULDER COBBLE GRAVEL SAND MUD

LIVE BIOTA / DENSITY (#/m² or %cover-algae):

Fucus 30 Mytilus 5 Balanus 100 Littorina _____

Nucella _____ Pagurus _____ Limpets _____ Halosaccion _____

Gelidium _____ Other _____

Oil Damaged Biota all dying

Clean-up Precautions leave fucus and mytilus in place

OILED ZONE: SPLASH HIGH MED LOW

SUBSTRATUM: ROCKS BOULDER COBBLE GRAVEL SAND MUD

*spit area
near island*

LIVE BIOTA / DENSITY (#/m² or %cover-algae):

Fucus 10 Mytilus 200-300 Balanus 20 Littorina _____

Nucella _____ Pagurus _____ Limpets _____ Halosaccion _____

Gelidium _____ Other many snails and limpets

Oil Damaged Biota all dying

Clean-up Precautions leave mytilus and fucus in place

no high pressure washing on spit - protect and preserve mytilus

MAMMALS (#): OTTERS _____ HARBOR _____ DALL _____ OTHER _____

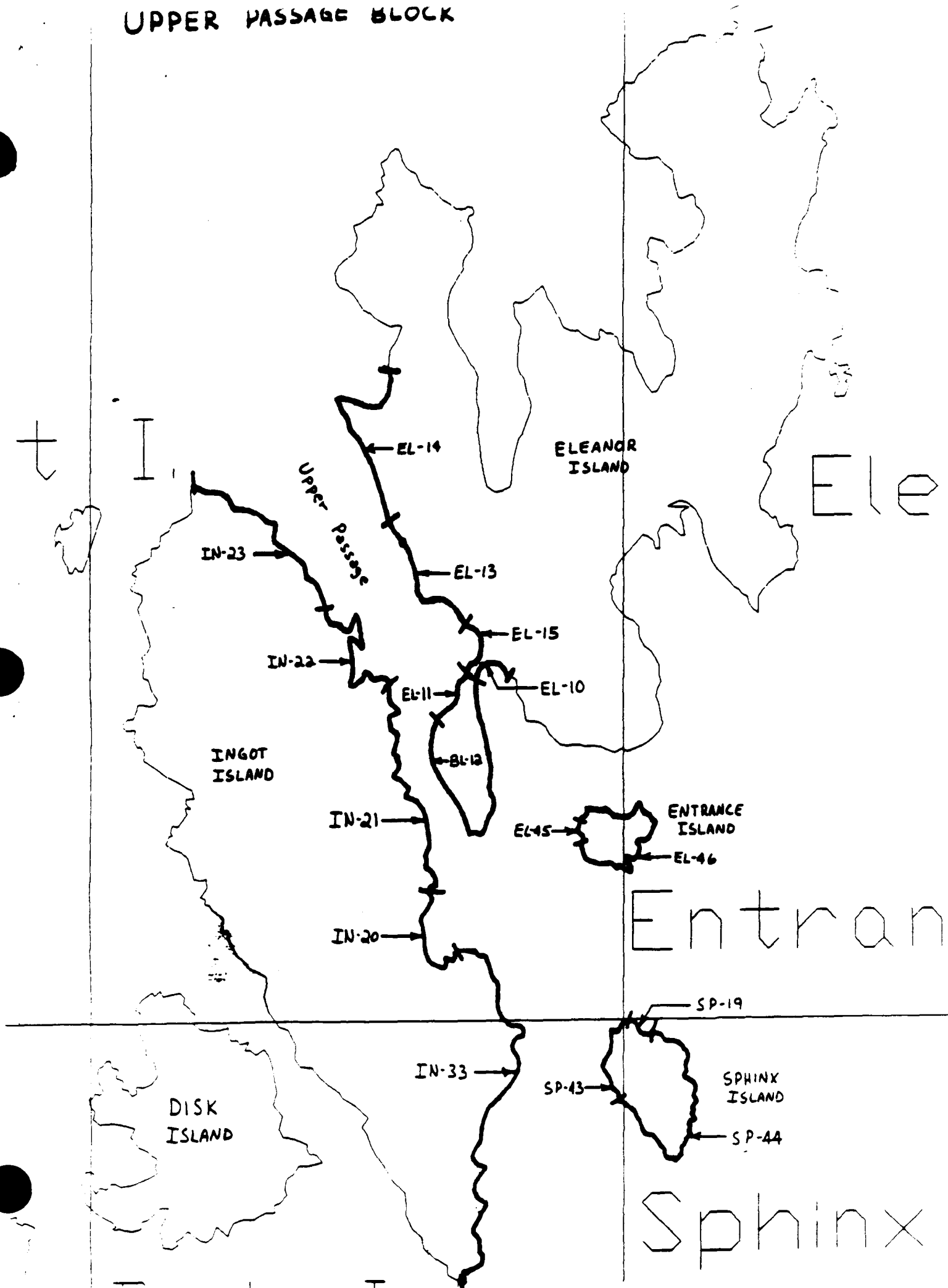
OTHER _____

BIRDS: _____

GENERAL OBSERVATIONS: None observed

pop. of D. M. E. (all)

UPPER PASSAGE BLOCK



SHORELINE CLEANUP PROGRAM

DATE: April 21, 1989

SHORELINE SEGMENT EL-14

LOCATION: (see enclosed map) Northeast upper passage

ADEC No. 30

SHORELINE ASSESSMENT DATE: 4-15-89

Recommended Cleanup Activity(ies):

Washing/Flooding
Warm water at moderate/high pressure
Low/high pressure washing

Priorities Considerations: .

Ecological Constraints (from site survey):

Leave fucus holdfast and mytilus clumps in place

Archeological Constraints (from site survey):

If heretofore undiscovered cultural material is uncovered, contact Exxon archaeologist C. Mobley immediately.

Charles Z. Adams
State Historic Preservation Officer *

Date: 4/21/89

EXXON: Wm. Solid ingo

Date: 5/4/89

FOSC: _____

Date: _____

* Signature required to satisfy stipulations in Alaska DNR
Tideland Permits.

SHORELINE OIL EVALUATION

[revised 11 Apr 89]

Date: 4 / 15 / 89Observer: Ken Hulbrook / MattsonTime: 3:00 p.m.

Weather: Sun/Cloud/Rain/Snow/Fog

LOCATIONLOCATION SITE Northeast ^{Upper Passage} ~~ABC~~ ADEC = 6LOCATION PREFIX SEGMENT NUMBER 14
LOCATION SUFFIX LATITUDE: 6 d m s LONGITUDE: 147 d m sLENGTH OF SHORELINE SEGMENT: 1400 mACCESS: Foot/Vehicle/Boat/Barge/Helio/Float Plane**SHORELINE****SHORELINE CHARACTER:**Open Coast Sheltered Coast Rock Y/NVertical/High Angle/Low AngleSediment Y/NBeach/SPit/CoveSEDIMENT TYPE: B / C / P / G / S / M / R**OIL**LOCATION OF OIL: SU / SP / H / M / L14' to 0' + 10'CONTINUOUS: Y/NWIDTH OF CONTINUOUS BAND: 30 meters mPATCHY: 10 / 20 / 30 / 40 / 50 / 60 / 70 / 80 / 90 % coverageEST. OIL THICKNESS: 5+ cmEST. OIL PENETRATION: 12 cmPOOLED OIL: Y/N"FREE" OIL: Y/NWEATHERED: Y/N**DOCUMENTATION**VTR: Y/N Tape Number(s) PHOTOGRAPHY: Y/N Roll Number(s) SAMPLE NUMBERS COLLECTED: Ken Hulbrook

ECOLOGICAL EVALUATION

LOCATION Eleonora Is.

SITE #14 A

OBSERVER Ken Holler

DATE 4 / 15 / 1989

TIME (HHMM) 1530

TIDE HT. (m) _____

OILED ZONE: SPLASH HIGH MED LOW

SUBSTRATUM: ROCKS BOULDER COBBLE GRAVEL SAND MUD

LIVE BIOTA / DENSITY (#/m² or %cover-algae):

Fucus 100 Mytilus 5 Balanus 5 Littorina 5

Nucella _____ Pagurus _____ Limpets 5 Halosaccion _____

Gelidium _____ Other _____

Oil Damaged Biota everything oiled, but not dying

Clean-up Precautions leave fucus holdfast

OILED ZONE: SPLASH HIGH MED LOW

SUBSTRATUM: ROCKS BOULDER COBBLE GRAVEL SAND MUD

LIVE BIOTA / DENSITY (#/m² or %cover-algae):

Fucus _____ Mytilus _____ Balanus _____ Littorina _____

Nucella _____ Pagurus _____ Limpets _____ Halosaccion _____

Gelidium _____ Other _____

Oil Damaged Biota _____

Clean-up Precautions _____

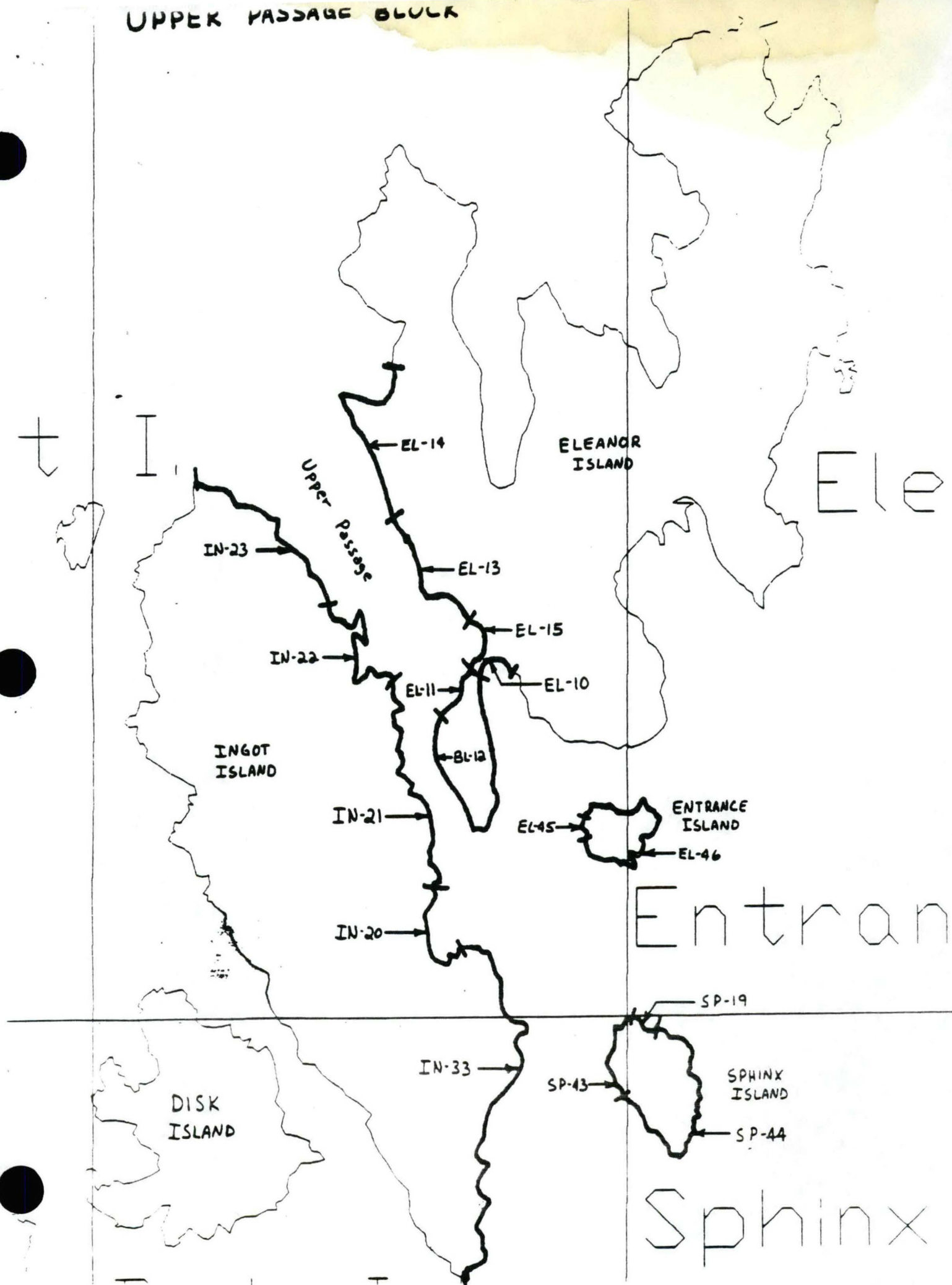
MAMMALS (#): OTTERS _____ HARBOR _____ DALL _____ OTHER _____

OTHER _____

BIRDS: _____

VERAL OBSERVATIONS: _____

UPPER PASSAGE BLOCK



(version 4/29/89)

SHORELINE CLEANUP PROGRAM

DATE 4/15/89

SHORELINE SEGMENT EL-15

LOCATION: (see enclosed map) ELEANOR ISLAND

ADEC NO. _____ SHORELINE ASSESSMENT DATE: 4/15/89

Recommended Cleanup Activity(ies):

- 1) Low pressure flushing/flooding in coarse grained materials without agitation to prevent further oil penetration, hot water acceptable.
- 2) Clean-up is recommended only for the section of shoreline facing upper passage and not within the cove itself.

Priorities Considerations:

NONE

Ecological Constraints (from site survey):

Do not clean within the mud or grass flat area. Bed rock and rock areas will have fucus holdfast and mytilus clumps left in place.

Archeological Constraints (from site survey):

If heretofore undiscovered cultural materials are uncovered during cleanup, contact Exxon archaeologist C. Mobley and take actions prescribed in the Operational Guidelines for Shoreline Cleanup dated 4/21/89 as amended.

Charles E. Jones
State Historic Preservation Officer *

Date: 5/3/89

EXXON: Wm. Stirling

Date: 5/4/89

FOSC: _____

Date: _____

* Signature required to satisfy stipulations in Alaska DNR land use permits for tide and submerged lands .

11/15/89
SHORELINE OIL EVALUATION

[revised 11 Apr 89]

Date: 4 / 15 / 89

Observer: Ken Holbrook, John Mattson

Time: 13 h 00 m

Weather: Sun/Cloud/Rain/Snow/Fog

LOCATION

LOCATION Eleanor Is.

SITE Lagoon off Ingot Cove

LOCATION PREFIX E.L.

SEGMENT NUMBER 3
~~LOCATION SUFFIX~~ 15

LATITUDE: 6 d m s LONGITUDE: 147 d m s

LENGTH OF SHORELINE SEGMENT: 900 m

ACCESS: Foot/Vehicle/Boat/Barge/Helio/Float Plane

SHORELINE

SHORELINE CHARACTER:

Open Coast

Sheltered Coast ✓

Rock Y/N

Vertical/High Angle/Low Angle

Sediment Y/N

BEach/SPit/Cove

SEDIMENT TYPE: B / C / P / G / S / M / R

OIL

LOCATION OF OIL: SU / SP / H / M / L

CONTINUOUS: Y/N WIDTH OF CONTINUOUS BAND: m

PATCHY: 10 / 20 / 30 / 40 / 50 / 60 / 70 / 80 / 90 % coverage

EST. OIL THICKNESS: .5 cm EST. OIL PENETRATION: 1 cm

POOLED OIL: Y/N

"FREE" OIL: Y/N

WEATHERED: Y/N

DOCUMENTATION

VTR: Y/N Tape Number(s) N

PHOTOGRAPHY: Y/N Roll Number(s) N

SAMPLE NUMBERS COLLECTED:

prepared by Dennis E. Holbrook

ECOLOGICAL EVALUATION

LOCATION Eleanor Island SITE #15 OBSERVER Ken Holbrook

DATE 4 / 15 / 1989 TIME (HHMM) 1300 TIDE HT. (m) _____

OILED ZONE: SPLASH HIGH MED LOW

SUBSTRATUM: ROCKS BOULDER COBBLE GRAVEL SAND MUD

LIVE BIOTA / DENSITY (#/m² or %cover-algae):

Fucus 30 Mytilus _____ Balanus _____ Littorina _____

Nucella _____ Pagurus _____ Limpets _____ Halosaccion _____

Gelidium _____ Other grass flats, mud bay, clams etc

Oil Damaged Biota spotty oil - no real damage

Clean-up Precautions no clean up recommended except the area facing upper passage. Do not clean within the mud and grass flat bay

OILED ZONE: SPLASH HIGH MED LOW

SUBSTRATUM: ROCKS BOULDER COBBLE GRAVEL SAND MUD

LIVE BIOTA / DENSITY (#/m² or %cover-algae):

Fucus _____ Mytilus _____ Balanus _____ Littorina _____

Nucella _____ Pagurus _____ Limpets _____ Halosaccion _____

Gelidium _____ Other _____

Oil Damaged Biota _____

Clean-up Precautions _____

MAMMALS (#): OTTERS _____ HARBOR _____ DALL _____ OTHER _____

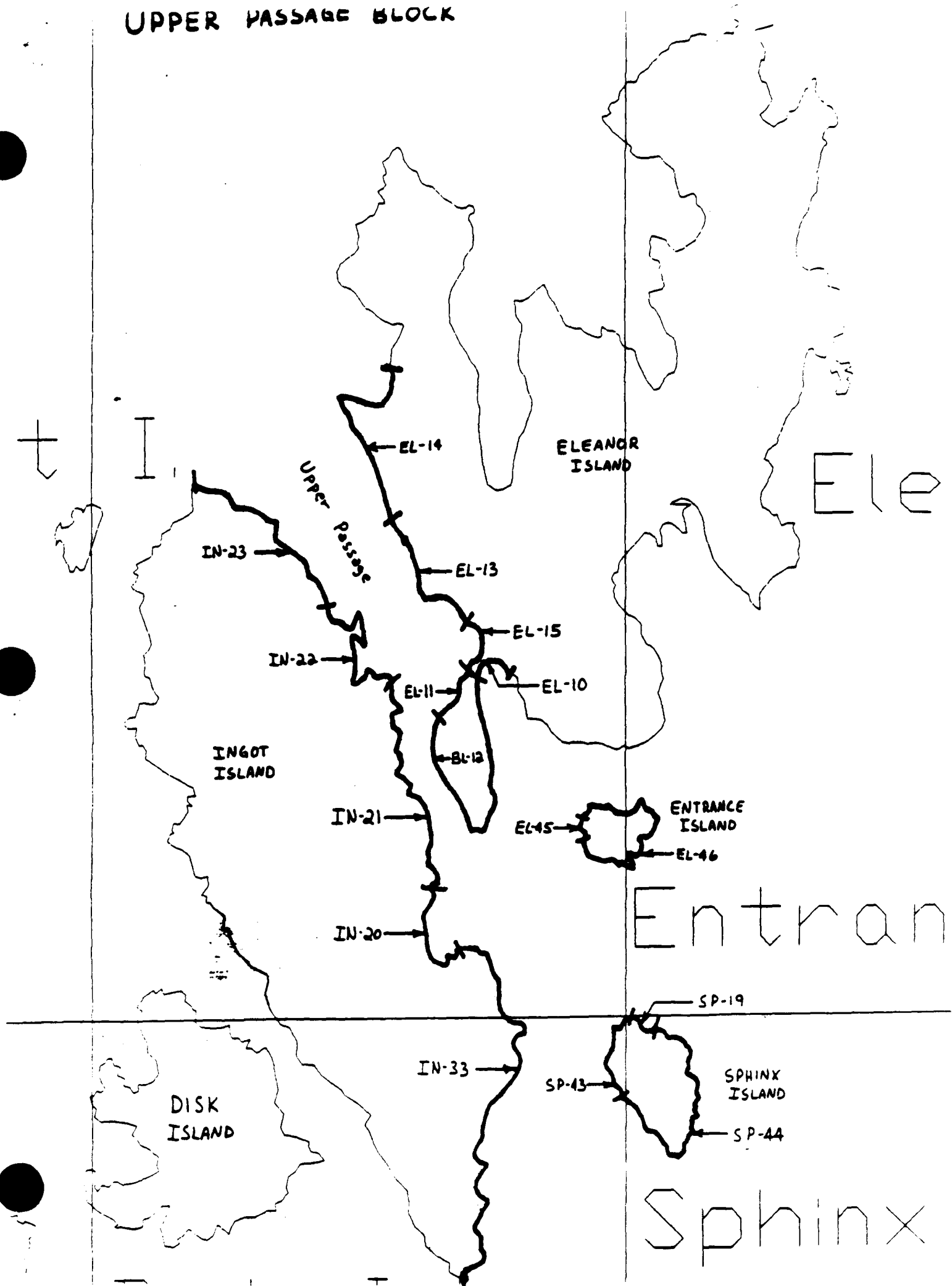
OTHER No mammals observed

BIRDS: No bird observed

GENERAL OBSERVATIONS: _____

prepared by Heather E. Holbrook

UPPER PASSAGE BLOCK



SHORELINE CLEANUP PROGRAM

DATE: April 21, 1989

SHORELINE SEGMENT IN-20

LOCATION: (see enclosed map) Cove south of Block Island

ADEC No. 11

SHORELINE ASSESSMENT DATE: 4-16-89

Recommended Cleanup Activity(ies):

Washing/flooding
Warm water at moderate/high pressure
Low/high pressure washing

Priorities Considerations:

Ecological Constraints (from site survey):

Do not remove fucus and mussels. Avoid streams and banks
of streams

Archeological Constraints (from site survey):

If heretofore undiscovered cultural material is
uncovered, contact Exxon archaeologist C. Mobley
immediately.

Charles E. Adams
State Historic Preservation Officer *

Date: 4/21/89

EXXON: William J. Stalup

Date: 5/4/89

FOSC: _____

Date: _____

* Signature required to satisfy stipulations in Alaska DNR
Tideland Permits.

IN-20

SHORELINE OIL EVALUATION

[revised 11 Apr 89]

Date: 4 / 16 / 89

Observer: Ken Holbrook

Time: 13 h 30 m

Weather: Sun/Cloud/Rain/Snow/Fog

LOCATION

LOCATION Ingot Island

SITE 20 Cove South of Block Island

LOCATION PREFIX IN

LOCATION SUFFIX 20

LATITUDE: 6 d m s LONGITUDE: 147 d m s

LENGTH OF SHORELINE SEGMENT: 1200 m

ACCESS: ~~Foot~~/Vehicle/~~Boat~~/~~Barge~~/Helio/Float Plane

SHORELINE

SHORELINE CHARACTER:

Open Coast ☒

Sheltered Coast

Rock ☒ Y/N

VERTical/High Angle/Low Angle

SEDiment ☒ Y/N

BEach/SPit/Cove

SEDIMENT TYPE: (B) / (C) / (P) / (G) / S / M / (R)

OIL

LOCATION OF OIL: SU / (SP) / (H) / (M) / L

CONTINUOUS: ☒ Y/N WIDTH OF CONTINUOUS BAND: 30 m

PATCHY: 10 / 20 / 30 / 40 / 50 / 60 / 70 / 80 / 90 % coverage

EST. OIL THICKNESS: 5 cm EST. OIL PENETRATION: 10 cm

POOLED OIL: ☒ Y/N

"FREE" OIL: ☒ Y/N

WEATHERED: Y/☒ N

DOCUMENTATION

VTR: Y/N Tape Number(s)

PHOTOGRAPHY: Y/N Roll Number(s)

SAMPLE NUMBERS COLLECTED:

Kenneth E. Holbrook

ECOLOGICAL EVALUATION

LOCATION Ingot Island SITE #20 OBSERVER Ken Holbrook
 DATE 4 / 16 / 1989 TIME (HHMM) 1330 TIDE HT. (m) _____

OILED ZONE: SPLASH (HIGH) (MED) LOW

SUBSTRATUM: (ROCKS) (BOULDER) (COBBLE) (GRAVEL) (SAND) MUD

LIVE BIOTA / DENSITY (#/m² or %cover-algae):

Fucus 10-20 Mytilus _____ Balanus _____ Littorina _____

Nucella _____ Pagurus _____ Limpets _____ Halosaccion _____

Gelidium _____ Other _____

The fucus is alive but declining

Oil Damaged Biota all animal life has died

Clean-up Precautions Do not remove fucus and mussels

OILED ZONE: SPLASH HIGH MED LOW

SUBSTRATUM: ROCKS BOULDER COBBLE GRAVEL SAND MUD

LIVE BIOTA / DENSITY (#/m² or %cover-algae):

Fucus _____ Mytilus _____ Balanus _____ Littorina _____

Nucella _____ Pagurus _____ Limpets _____ Halosaccion _____

Gelidium _____ Other _____

Oil Damaged Biota _____

Clean-up Precautions _____

MAMMALS (#): OTTERS _____ HARBOR _____ DALL _____ OTHER _____

OTHER No mammals observed

BIRDS: 1 oiled loon recovered

GENERAL OBSERVATIONS: all animal life observed has died on this section

Kenneth E. Holbrook

CULTURAL RESOURCE EVALUATION FOR OILED SHORELINE

Date 4/16 Location INGOT ISLAND Site ^{Cove} ~~Pointe~~ SW of Entrance IslandLocation Prefix IN ~~XXXXXXXXXX~~ Segment # 20 Length 200 mSurvey Method: Air (A - indicate on map) justify Ground ✓ (G - indicate on map) justify Gently shelving beach with fresh water and
timber.Known cultural resources (AHRS code) SEW-394 Data source AHRS map / Telephone call
to KlinglerOil conditions/beach visibility Heavy extensive coverage / Poor visibilitywidth of beach zone surveyed 20 m Tree fringe surveyed yesCultural resources observed in beach zone (AHRS code) NONECultural resources observed in tree fringe (AHRS code) CMT/HTD/FCR

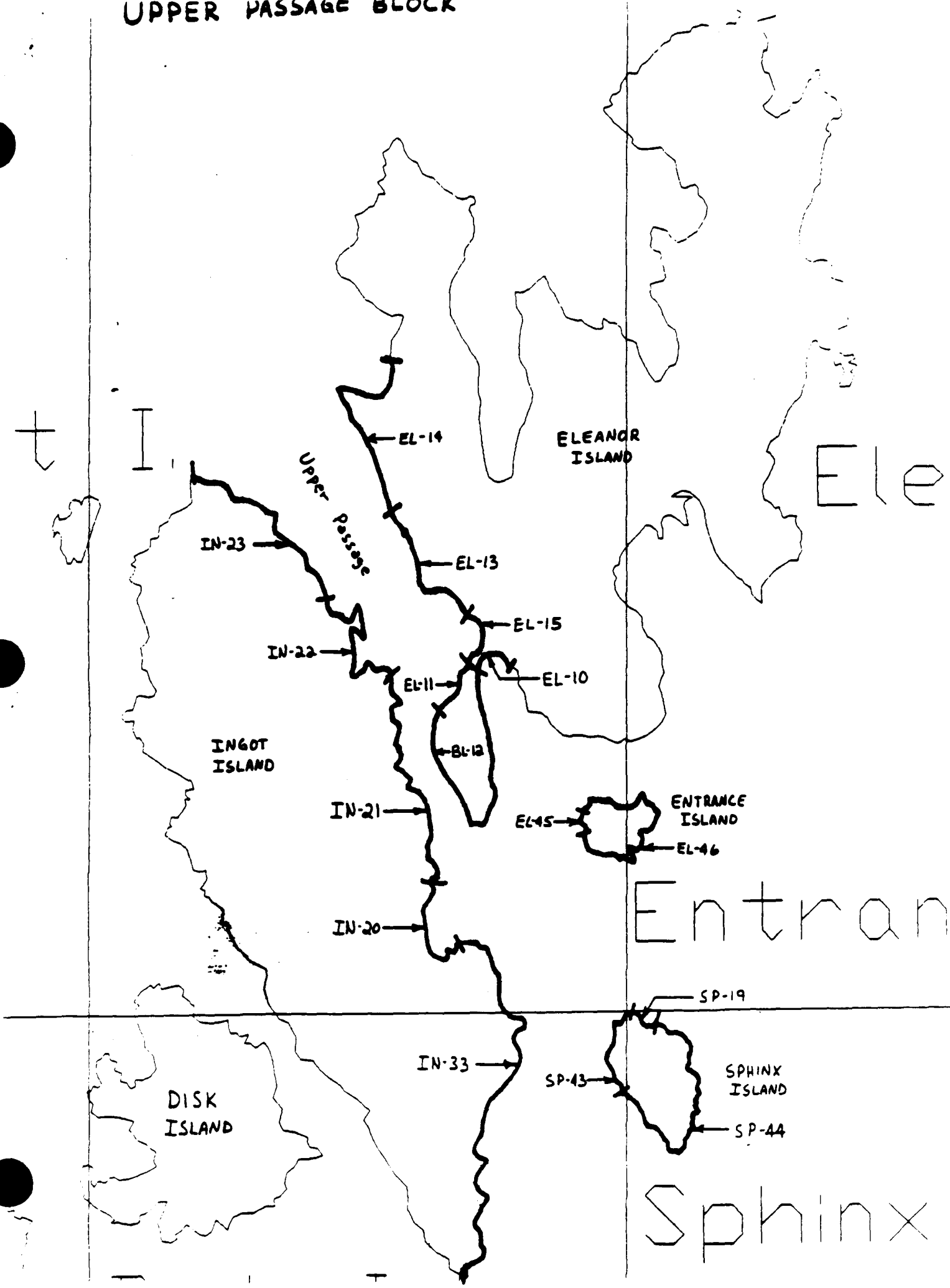
General observations on segment's site probability:

Shore morphology Gently sloping beach with high level forested beach fringeFresh water sources Two low volume unnamed streamsExposure Well protectedProbability of undiscovered sites in beach zone (circle one) 1 2 (3) 4 5Monitoring during clean-up needed yes / (no)Photos: Color Roll # Frames B/W Roll # Frames Observer(s) John Mattson, Kenneth HolbrookTime survey started 1:30 PM Time survey ended 2:45 PM

Cultural resource considerations/restraints :

If heretofore undiscovered cultural materials are uncovered,notify Exxon archaeologist C. Mobley immediately.

UPPER PASSAGE BLOCK



SHORELINE CLEANUP PROGRAM

DATE: April 21, 1989

SHORELINE SEGMENT IN-21

LOCATION: (see enclosed map) West of block Island

ADEC No. 11

SHORELINE ASSESSMENT DATE: 4-16-89

Recommended Cleanup Activity(ies):

Warm water at moderate/high pressure
Low/high pressure washing

Priorities Considerations:

Ecological Constraints (from site survey):

Do not remove fucus holdfast or mussels clumps. Avoid
streams and banks of streams

Archeological Constraints (from site survey):

If heretofore undiscovered cultural material is
uncovered, contact Exxon archaeologist C. Mobley
immediately.

Charles E. Adams
State Historic Preservation Officer *

Date: 4/21/89

EXXON: Wm Stalings

Date: 5/4/89

FOSC: _____

Date: _____

* Signature required to satisfy stipulations in Alaska DNR
Tideland Permits.

SHORELINE OIL EVALUATION

[revised 11 Apr 89]

Date: 4 / 16 / 89

Observer: Ken Holbrook

Time: 14 h 00 m

Weather: Sun/Cloud/Rain/Snow/Fog

LOCATION

LOCATION Ingot Island

SITE ~~IN~~ West of Block Island

LOCATION PREFIX IN

LOCATION SUFFIX ~~IN~~ 21

LATITUDE: 6 d m s LONGITUDE: 147 d m s

LENGTH OF SHORELINE SEGMENT: 1400 m

ACCESS: Foot/Vehicle/Boat/Barge/Helio/Float Plane

SHORELINE

SHORELINE CHARACTER:

Open Coast

Sheltered Coast ✓

Rock Y/N

Vertical/High Angle/Low Angle

Sediment Y/N

BEach/SPit/Cove

SEDIMENT TYPE: B / C / P / G / S / M / R

OIL

LOCATION OF OIL: SU / SP / H / M / L

CONTINUOUS: Y/N WIDTH OF CONTINUOUS BAND: 1-3 m

PATCHY: 10 / 20 / 30 / 40 / 50 / 60 / 70 / 80 / 90 % coverage

EST. OIL THICKNESS: .25 cm EST. OIL PENETRATION: N cm

POOLED OIL: Y/N

"FREE" OIL: Y/N

WEATHERED: Y/N

DOCUMENTATION

VTR: Y/N Tape Number(s)

PHOTOGRAPHY: Y/N Roll Number(s)

SAMPLE NUMBERS COLLECTED:

Kenneth E. Holbrook

ECOLOGICAL EVALUATION

LOCATION Ingot Island SITE 21 OBSERVER Ken Holbrook

DATE 4 / 16 / 1989 TIME (HHMM) 1400 TIDE HT. (m) _____

OILED ZONE: SPLASH HIGH MED LOW

SUBSTRATUM: ROCKS BOULDER COBBLE GRAVEL SAND MUD

LIVE BIOTA / DENSITY (#/m² or %cover-algae):

Fucus 25 Mytilus 5 Balanus _____ Littorina _____

Nucella _____ Pagurus _____ Limpets 5 Halosaccion _____

Gelidium _____ Other _____

Oil Damaged Biota all biota dead and dying

Clean-up Precautions Do not remove fucus hold fast or mussel clumps

OILED ZONE: SPLASH HIGH MED LOW

SUBSTRATUM: ROCKS BOULDER COBBLE GRAVEL SAND MUD

LIVE BIOTA / DENSITY (#/m² or %cover-algae):

Fucus _____ Mytilus _____ Balanus _____ Littorina _____

Nucella _____ Pagurus _____ Limpets _____ Halosaccion _____

Gelidium _____ Other _____

Oil Damaged Biota _____

Clean-up Precautions _____

MAMMALS (#): OTTERS _____ HARBOR _____ DALL _____ OTHER _____

OTHER no mammals observed

BIRDS: no birds observed

GENERAL OBSERVATIONS: _____

CULTURAL RESOURCE EVALUATION FOR OILED SHORELINE

Date 4/16 Location INGOT ISLAND Site WEST OF Block Island

Location Prefix IN ~~IN~~ Segment # 21 Length 1400 m

Survey Method: Air ✓ (A - indicate on map) justify vertical rock walls, inaccessible by helicopter

Ground (G - indicate on map) justify

Known cultural resources (AHRS code) SEW-394 Data source AHRS maps

Oil conditions/beach visibility no beach

Width of beach zone surveyed m Tree fringe surveyed

Cultural resources observed in beach zone (AHRS code) none

Cultural resources observed in tree fringe (AHRS code) none

General observations on segment's site probability:

Shore morphology vertical rock walls

Fresh water sources small surface streams

Exposure protected by Vaper Passage

Probability of undiscovered sites in beach zone (circle one) 1 2 3 4 5

Monitoring during clean-up needed yes / no

Photos: Color Roll # Frames

B/W Roll # Frames

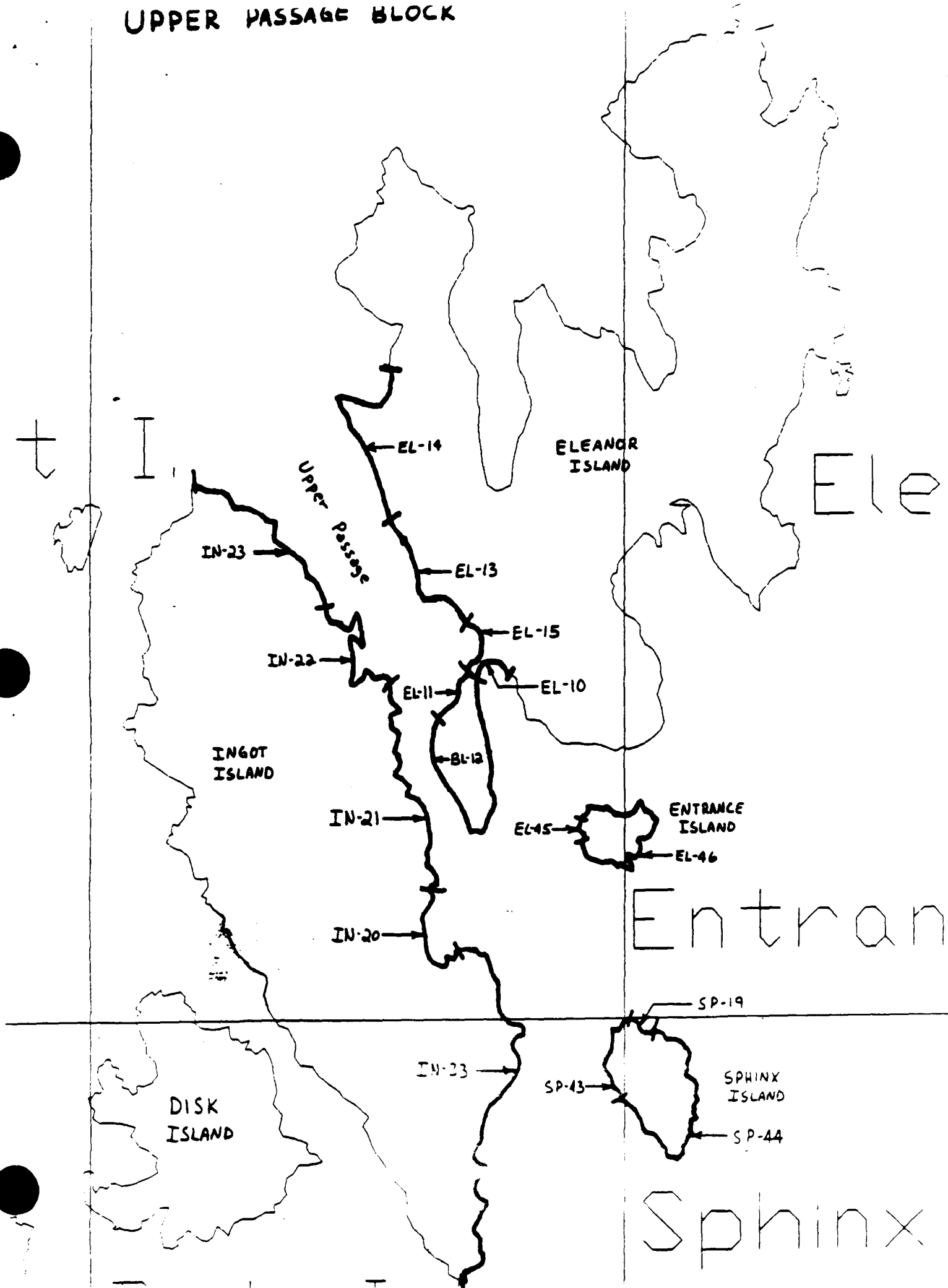
Observer(s) John MATSON

Time survey started 2:45 Time survey ended 2:55

Cultural resource considerations/restraints :

If heretofore undiscovered cultural materials are
uncovered, notify Exxon archaeologist immediately.

UPPER PASSAGE BLOCK



SHORELINE CLEANUP PROGRAM

DATE: April 21, 1989

SHORELINE SEGMENT IN-22

LOCATION: (see enclosed map) Ingot Cove

SHORELINE ASSESSMENT DATE: 4-16-89

Recommended Cleanup Activity(ies):

Washing/flooding
Warm water at moderate/high pressure
Low/high pressure washing

Priorities Considerations:

Ecological Constraints (from site survey):

Clean 2 small coves north of Ingot Cove. Do not clean Ingot Cove. Minor clean-up on rocks east of Ingot Cove and small Islet east of Ingot Cove.

Archeological Constraints (from site survey):

If heretofore undiscovered cultural material is uncovered, contact Exxon archaeologist C. Mobley immediately.

Charles E. Holmes
State Historic Preservation Officer *

Date: 4/21/89

EXXON: Wm. Stirling

Date: 5/4/89

FOSC: _____

Date: _____

* Signature required to satisfy stipulations in Alaska DNR
Tideland Permits.

SHORELINE OIL EVALUATION

[revised 11 Apr 89]

Date: 4 / 16 / 89

Observer: Ken Holbrook / John Mattson

Time: 14 h 15 m

Weather: Sun/Cloud/Rain/Snow/Fog

LOCATION

LOCATION Ingot Island SITE 22 Ingot Cove

LOCATION PREFIX IN LOCATION SUFFIX NE 22

LATITUDE: 6 d m s LONGITUDE: 147 d m s

LENGTH OF SHORELINE SEGMENT: 1000 m

ACCESS: ~~Foot~~/Vehicle/Boat/Barge/Helio/Float Plane

SHORELINE

SHORELINE CHARACTER:

Open Coast

Sheltered Coast ✓

Rock Y/N

VERTical/High Angle/Low Angle

Sediment Y/N

BEach/SPit/Cove

SEDIMENT TYPE: B / C / P / G / S / M / R

OIL

LOCATION OF OIL: SU / SP / H / M / L

10 x 70 m

CONTINUOUS: Y/N WIDTH OF CONTINUOUS BAND: m

PATCHY: 10 / 20 / 30 / 40 / 50 / 60 / 70 / 80 / 90 % coverage

EST. OIL THICKNESS: .5 cm EST. OIL PENETRATION: 20 cm

POOLED OIL: Y/N

"FREE" OIL: Y/N

WEATHERED: Y/N

DOCUMENTATION

VTR: Y/N Tape Number(s) N

PHOTOGRAPHY: Y/N Roll Number(s) N

SAMPLE NUMBERS COLLECTED: N

Heavy oil in 2 small coves north of Ingot Cove
a 10x70m patch of heavy oil in Ingot Cove. Little to
no oil in the remainder of this area.

ECOLOGICAL EVALUATION

John Mattson

LOCATION Ingot Island

SITE Ingot Cove #22

OBSERVER Ken Holbrook

DATE 4 / 16 / 1989

TIME (HHMM) 1415

TIDE HT. (m) _____

OILED ZONE: SPLASH HIGH MED LOW

SUBSTRATUM: ROCKS BOULDER COBBLE GRAVEL SAND MUD

LIVE BIOTA / DENSITY (#/m² or %cover-algae):

Fucus 25 Mytilus 25 Balanus 50 Littorina 5

Nucella _____ Pagurus _____ Limpets 5 Halosaccion _____

Gelidium _____ Other Zostera 25/m²

Oil Damaged Biota Isolated oiling. Some bath tube ring on small island. Damaged biota in 2 small coves north of Ingot Cove
 Clean-up Precautions Do not remove green widgeon or mussel clump. Do not clean then do not clean the mud flat. Clean 2 small coves north of Ingot Cove

OILED ZONE: SPLASH HIGH MED LOW

SUBSTRATUM: ROCKS BOULDER COBBLE GRAVEL SAND MUD

LIVE BIOTA / DENSITY (#/m² or %cover-algae):

Fucus _____ Mytilus _____ Balanus _____ Littorina _____

Nucella _____ Pagurus _____ Limpets _____ Halosaccion _____

Gelidium _____ Other _____

Oil Damaged Biota _____

Clean-up Precautions _____

MAMMALS (#): OTTERS _____ HARBOR _____ DALL _____ OTHER _____

OTHER Sea Lions

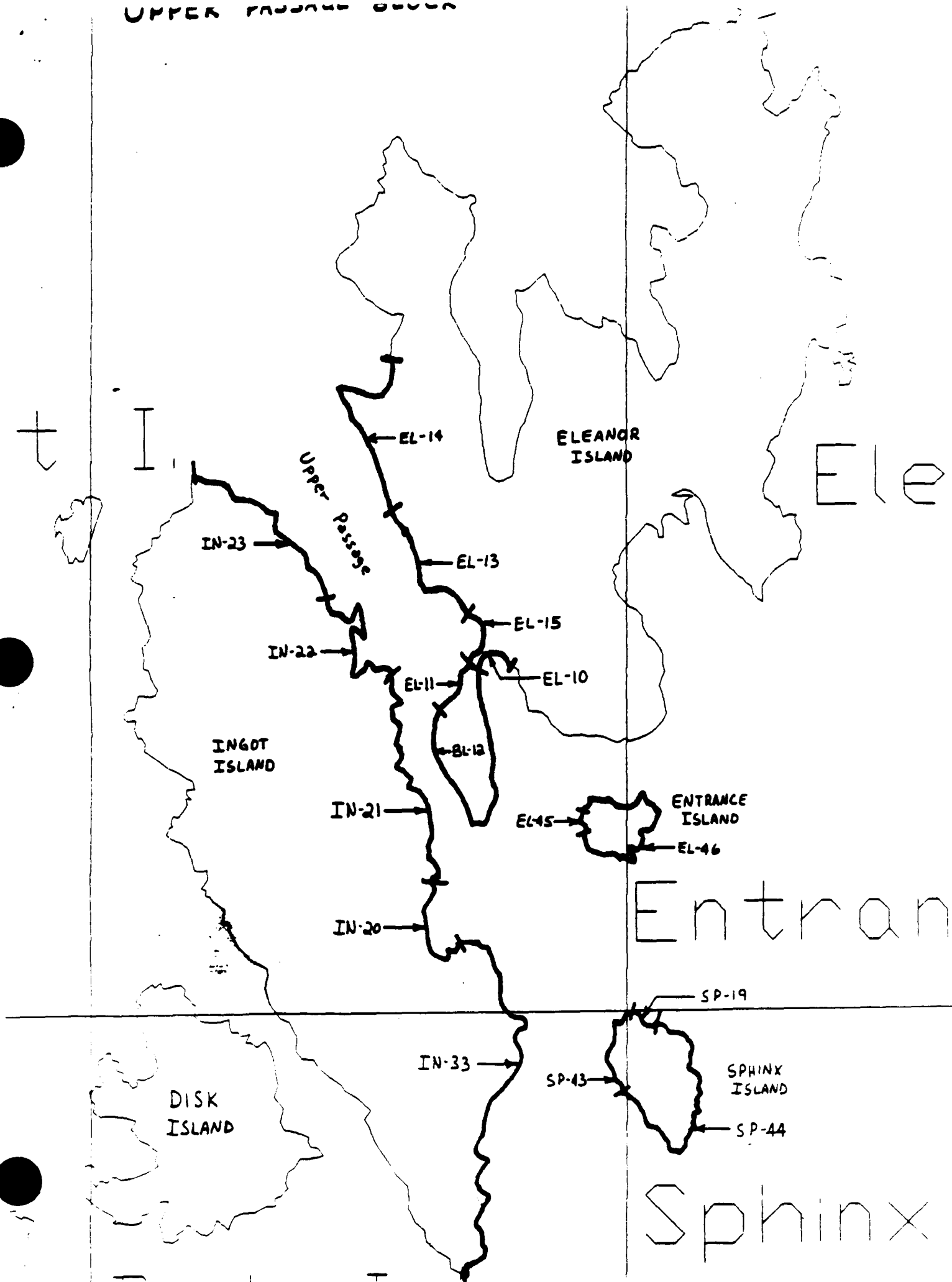
BIRDS: no birds observed

VERAL OBSERVATIONS: _____

CULTURAL RESOURCE EVALUATION FOR OILED SHORELINE

Date 4/16/89 Location INGOT ISLAND Site Ingot Cove
Location Prefix II ~~Location~~ Segment # 22 Length 800 m
Survey Method: Air (A - indicate on map) justify
Ground ✓ (G - indicate on map) justify fresh water, gentle beach, good timber sp. 4
Known cultural resources (AHRS code) Data source
oil conditions/beach visibility very heavy oil, visibility zero
width of beach zone surveyed variable 10-25 m Tree fringe surveyed yes
Cultural resources observed in beach zone (AHRS code) none
Cultural resources observed in tree fringe (AHRS code) LMT/RKS
General observations on segment's site probability:
Shore morphology gentle beach, spit, flat spit area
Fresh water sources yes
Exposure well-protected
Probability of undiscovered sites in beach zone (circle one) 1 2 3 4 5
Monitoring during clean-up needed yes / no
Photos: Color Roll # Frames
B/W Roll # Frames
Observer(s) John Mattson / Ken Holbrook
Time survey started 3:00 PM Time survey ended 4:00 pm
Cultural resource considerations/restraints :
IF heretofore undiscovered cultural materials are
discovered, notify Exxon archaeologist C. Hobbey immediately.

UPPER PASSAGE BLOCK



(version 4/29/89)

SHORELINE CLEANUP PROGRAM

DATE 4/16/89

SHORELINE SEGMENT IN-23

LOCATION: (see enclosed map) INGOT ISLAND

ADEC NO. _____ SHORELINE ASSESSMENT DATE: 4/16/89

Recommended Cleanup Activity(ies):

Low pressure, flushing and flooding on beaches within coves to the north with agitation to remove subsurface oil, hot water acceptable.

Rock faces are lightly oiled and may not require cleanup. If necessary use high pressure washing on bare rock and low pressure on rocks with mussels or FUCUS.

Priorities Considerations:

NONE

Ecological Constraints (from site survey):

Do not remove fucus, holdfast and missed clumps.

Archeological Constraints (from site survey):

If heretofore undiscovered cultural materials are uncovered during cleanup, contact Exxon archaeologist C. Mobley and take actions prescribed in the Operational Guidelines for Shoreline Cleanup dated 4/21/89 as amended.

Charles E. Adams
State Historic Preservation Officer *

Date: 5/3/89

EXXON: Wm Staling

Date: 5/4/89

FOSC: _____

Date: _____

* Signature required to satisfy stipulations in Alaska DNR land use permits for tide and submerged lands .

IN-23

SHORELINE OIL EVALUATION

[revised 11 Apr 89]

Date: 4 / 16 / 89

Observer: Ken Holbrook / John Mattson

Time: 14 h 15 m

Weather: Sun/Cloud/Rain/Snow/Fog

LOCATION

LOCATION Ingot Island SITE Northeast Corner Ingot Island
LOCATION PREFIX IN SEGMENT NUMBER 23
~~LOCATION SUFFIX~~

LATITUDE: 6 d m s LONGITUDE: 147 d m s

LENGTH OF SHORELINE SEGMENT: 1400 m

ACCESS: Foot/Vehicle/Boat/Barge/Helio/Float Plane

SHORELINE

SHORELINE CHARACTER:

Open Coast ✓

Sheltered Coast

Rock Y/N

Vertical/High Angle/Low Angle

Sediment Y/N

Beach/SPit/Cove

SEDIMENT TYPE: B / C / P / S / S / M / R

OIL

LOCATION OF OIL: SU / SP / H / M / L

CONTINUOUS: Y/N WIDTH OF CONTINUOUS BAND: 1-3 m

PATCHY: 10 / 20 / 30 / 40 / 50 / 60 / 70 / 80 / 90 % coverage

EST. OIL THICKNESS: .5 cm EST. OIL PENETRATION: 10 cm

POOLED OIL: Y/N

"FREE" OIL: Y/N

WEATHERED: Y/N

DOCUMENTATION

VTR: Y/N Tape Number(s) N

PHOTOGRAPHY: Y/N Roll Number(s) N

SAMPLE NUMBERS COLLECTED: N

Lite oil in the bed rock areas ^{section A} and heavy oil in the 2 coves
in the section G.

HUY/LIT

ECOLOGICAL EVALUATION

LOCATION Inlet Island SITE Northeast Corner #23 OBSERVER Ken Hollbrook/John
 DATE 4 / 16 / 1989 TIME (HHMM) 1415 TIDE HT. (m) _____

OILED ZONE: SPLASH HIGH ~~LOW~~ LOW
 SUBSTRATUM: ROCKS BOULDER COBBLE GRAVEL SAND MUD

LIVE BIOTA / DENSITY (#/m² or %cover-algae):

Fucus 25 Mytilus 25 Balanus 50 Littorina 5
 Nucella _____ Pagurus _____ Limpets 5 Halosaccion _____
 Gelidium _____ Other _____

Oil Damaged Biota all animals in the 2 covers are dead.

Clean-up Precautions Do not remove Fucus holdfast or mussel clumps.

OILED ZONE: SPLASH HIGH MED LOW
 SUBSTRATUM: ROCKS BOULDER COBBLE GRAVEL SAND MUD

LIVE BIOTA / DENSITY (#/m² or %cover-algae):

Fucus _____ Mytilus _____ Balanus _____ Littorina _____
 Nucella _____ Pagurus _____ Limpets _____ Halosaccion _____
 Gelidium _____ Other _____

Oil Damaged Biota _____

Clean-up Precautions _____

MAMMALS (#): OTTERS _____ HARBOR _____ DALL _____ OTHER _____
 OTHER no mammals observed

BIRDS: 1 oiled gull

GENERAL OBSERVATIONS: Section A, is like oiled 1-3 meters. Section
G is heavy oiled

CULTURAL RESOURCE EVALUATION FOR OILED SHORELINE

Date 4/16/89 Location INGOT ISLAND Site NE corner of Ingot Island

Location Prefix IN ~~Location~~ Segment # 23 Length 800 m

Survey Method: Air ☒ (A - indicate on map) justify vertical rock walls, no access

Ground ☒ (G - indicate on map) justify beach, gently sloping, fresh water

Known cultural resources (AHRS code) _____ Data source _____

Oil conditions/beach visibility heavy oil, oiled beach being covered by new gravel

Width of beach zone surveyed 15 m Tree fringe surveyed yes

Cultural resources observed in beach zone (AHRS code) none

Cultural resources observed in tree fringe (AHRS code) CHT/

General observations on segment's site probability:

Shore morphology A) vertical cliffs, alpine muskeg immediately behind tree fringe
G) gently sloping beach, alpine muskeg immediately behind tree fringe

Fresh water sources Two small unnamed streams

Exposure partially protected

Probability of undiscovered sites in beach zone (circle one) 1 2 3 4 5

Monitoring during clean-up needed yes no

Photos: Color Roll # _____ Frames _____

B/W Roll # _____ Frames _____

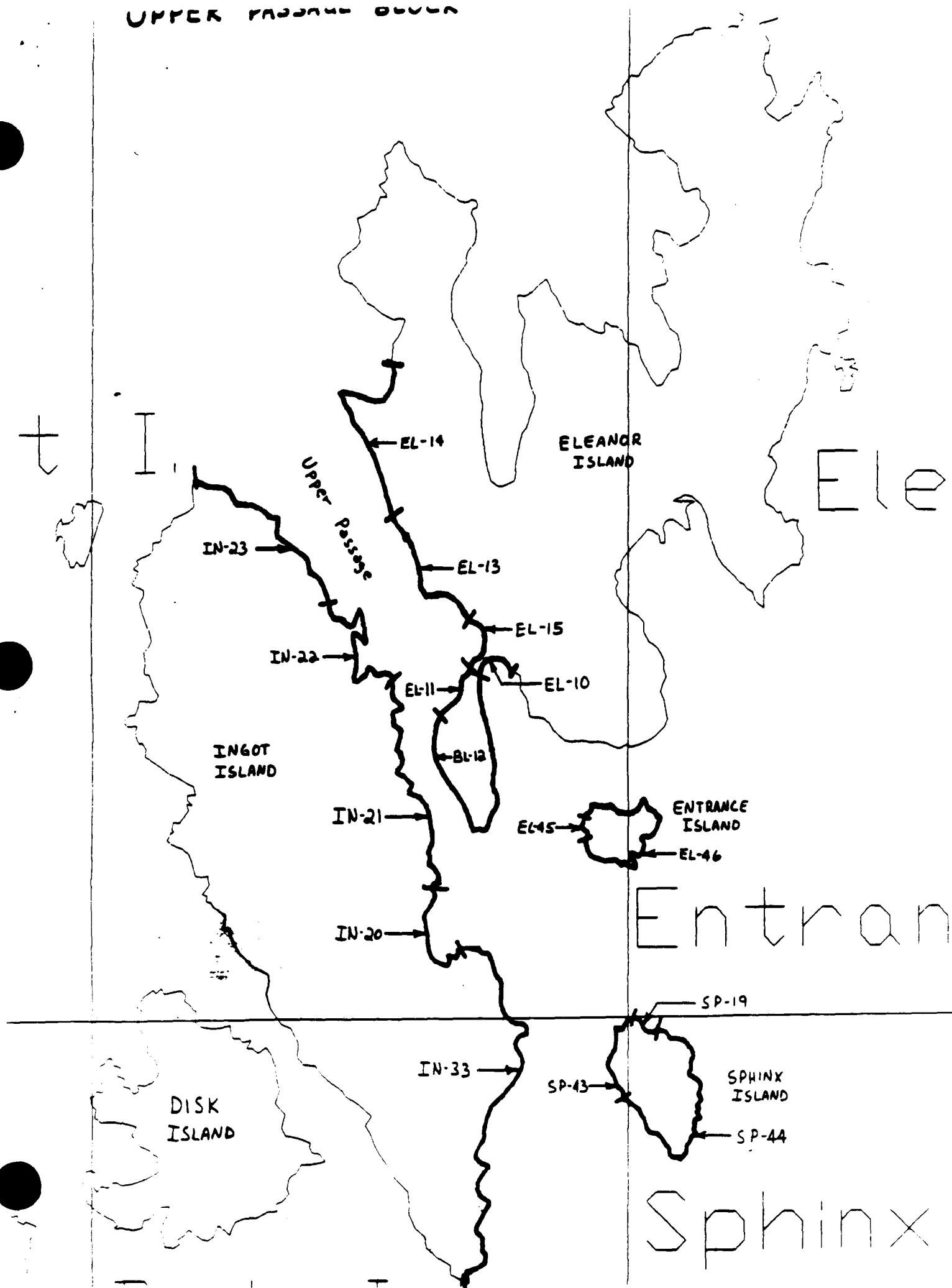
Observer(s) John Mattson / Ken Holbrook

Time survey started 2:45 Time survey ended 3:45

Cultural resource considerations/restraints :

If heretofore undiscovered cultural materials are uncovered,
notify Exxon-archaeologist C. Mabley immediately

UPPER PASSAGE BLOCK



SHORELINE CLEANUP PROGRAM

DATE: April 21, 1989

SHORELINE SEGMENT IN-33

LOCATION: (see enclosed map) Southeast side of Ingot Island

ADEC No. _____

SHORELINE ASSESSMENT DATE: 4-17-89

Recommended Cleanup Activity(ies):

Warm water at moderate/high pressure
Low/high pressure washing

Priorities Considerations:

Ecological Constraints (from site survey):

Do not remove fucus holdfast and mussel clumps.

Archeological Constraints (from site survey):

If heretofore undiscovered cultural material is uncovered, contact Exxon archaeologist C. Mobley immediately.

Charles E. Adams
State Historic Preservation Officer *

Date: 4/21/89

EXXON: Wm. Stulnick

Date: 5/4/89

FOSC: _____

Date: _____

* Signature required to satisfy stipulations in Alaska DNR
Tideland Permits.

SHORELINE OIL EVALUATION

[revised 11 Apr 89]

Date: 4 / 17 / 89Observer: Ken Holbrook, John H. H.Time: 15 h 30 m

Weather: Sun/Cloud/Rain/Snow/Fog

LOCATIONLOCATION Ingot Island SITE South eastLOCATION PREFIX IN LOCATION SUFFIX 33LATITUDE: 6 d m s LONGITUDE: 147 d m sLENGTH OF SHORELINE SEGMENT: 1300 m

ACCESS: Foot/VEHICLE/BOAT/BARGE/HELICOPTER/Float Plane

*This area was surveyed by Helo only***SHORELINE****SHORELINE CHARACTER:**Open Coast ☒Sheltered Coast ☐Rock ☒ Y/NVertical/High Angle/Low Angle

Sediment Y/N

BEACH/SPIT/COVE

SEDIMENT TYPE: B / C / P / G / S / M / R**OIL**LOCATION OF OIL: SU / SP / H / M / LCONTINUOUS: ☒ Y/N WIDTH OF CONTINUOUS BAND: 1-10 m

PATCHY: 10 / 20 / 30 / 40 / 50 / 60 / 70 / 80 / 90 % coverage

EST. OIL THICKNESS: .5 cm EST. OIL PENETRATION: ? cmPOOLED OIL: ☒ Y/N"FREE" OIL: ☒ Y/NWEATHERED: ☒ Y/N**DOCUMENTATION**VTR: Y/N Tape Number(s) 11PHOTOGRAPHY: Y/N Roll Number(s) 4SAMPLE NUMBERS COLLECTED: Y

The transect is the south east shore of Ingot Is and. The area is covered in a path-like ring 1-3 meters wide and 5-10 meters in the center. The area is also covered in the southern tip of the Is. There are also moose in the area of the south. Dr. J. J. E. H. H.

ECOLOGICAL EVALUATION

John W. Halsey

LOCATION Ingot Island

SITE Southeast

OBSERVER Ken Holbrook

DATE 4 / 17 / 1989

TIME (HHMM) 1530

TIDE HT. (m) _____

OILED ZONE: SPLASH HIGH MED LOW

SUBSTRATUM: ROCKS BOULDER COBBLE GRAVEL SAND MUD

LIVE BIOTA / DENSITY (#/m² or %cover-algae):

Fucus _____ Mytilus _____ Balanus _____ Littorina _____

Nucella _____ Pagurus _____ Limpets _____ Halosaccion _____

Gelidium _____ Other _____

Oil Damaged Biota _____

Clean-up Precautions Do not remove fucus holdfast and mussel clumps

OILED ZONE: SPLASH HIGH MED LOW

SUBSTRATUM: ROCKS BOULDER COBBLE GRAVEL SAND MUD

LIVE BIOTA / DENSITY (#/m² or %cover-algae):

Fucus _____ Mytilus _____ Balanus _____ Littorina _____

Nucella _____ Pagurus _____ Limpets _____ Halosaccion _____

Gelidium _____ Other _____

Oil Damaged Biota _____

Clean-up Precautions _____

MAMMALS (#): OTTERS _____ HARBOR _____ DALL _____ OTHER _____

OTHER _____

BIRDS: _____

GENERAL OBSERVATIONS: Surveyed by Halsey only

Strangers of oil and moose along entire offshore area, it will go up on the coast by low tide.

Kenneth E. Holbrook

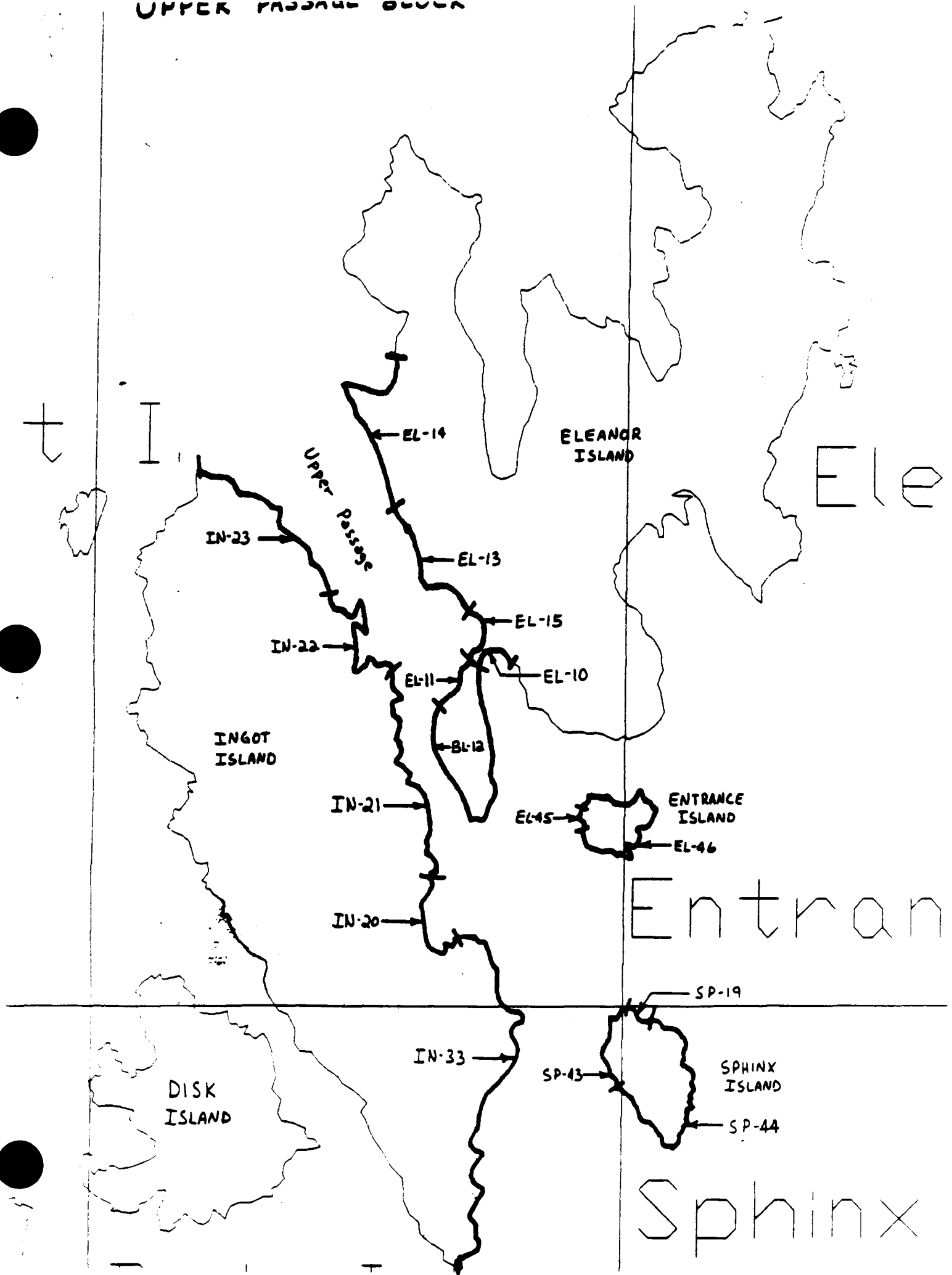
(version of 4/17/89)

CULTURAL RESOURCE EVALUATION FOR OILED SHORELINE

ce 4/17/89 Location Engot Island Site Southeast
Location Prefix LN Segment # 33 Length 1800 m
Survey Method: Air ☒ (A - indicate on map)
Ground ☐ (G - indicate on map)
Known cultural resources (AHRS #) NO Data Source _____
Oil conditions/beach visibility Heavily Oiled
Width of beach zone surveyed NA m Tree fringe surveyed NA
Cultural resources observed in beach zone (AHRS code) NA
Cultural resources observed in tree fringe (AHRS code) NA
General observations justifying survey method and segment's site probability:
Shore Profile Vertical rock shoreline or small bays inaccessible by helicopter
Fresh Water Sources _____

a Exposure Open water
Probability of undiscovered sites in beach zone (circle one) (1) 2 3 4 5
Monitoring during cleanup needed yes (no) Collection yes (no)
Photos: Color Roll # _____ Frames _____
B/W Roll # _____ Frames _____
Observer(s) John L. Mattson, Kenneth E. Holbrook
Time survey started 1520 Time survey ended 1530
Cultural resource considerations/restraints:
If heretofore undiscovered cultural materials are uncovered, notify Exxon archaeologist
C. Mobley immediately.

UPPER PASSAGE BLOCK



SHORELINE CLEANUP PROGRAM

DATE: April 21, 1989

SHORELINE SEGMENT SP-19

LOCATION: (see enclosed map) Northwest Sphinx Island

ADEC No. 32

SHORELINE ASSESSMENT DATE: 4-16-89

Recommended Cleanup Activity(ies):

Washing/flooding
Warm water at moderate/high pressure
High/low pressure washing

Priorities Considerations:

Ecological Constraints (from site survey):

Do not dislodge mussels.

Archeological Constraints (from site survey):

If heretofore undiscovered cultural material is uncovered, contact Exxon archaeologist C. Mobley immediately.

Charles E. Homan
State Historic Preservation Officer *

Date: 4/21/89

EXXON: Wm Stirling

Date: 5/4/89

FOSC: _____

Date: _____

* Signature required to satisfy stipulations in Alaska DNR
Tideland Permits.

SHORELINE OIL EVALUATION

[revised 11 Apr 89]

Date: 4 / 16 / 89Observer: HardinTime: 14 h 30 mWeather: Sun/Cloud/Rain/Snow/Fog**LOCATION**LOCATION Sphinx IslandSITE ^{North}
East
North Side #19LOCATION PREFIX EL SP

LOCATION SUFFIX _____

LATITUDE: 6 ___ d ___ m ___ s LONGITUDE: 147 d ___ m ___ s

LENGTH OF SHORELINE SEGMENT: 150 mACCESS: Foot/Vehicle/Boat/Barge/Helio/Float Plane**SHORELINE****SHORELINE CHARACTER:**Open Coast X

Sheltered Coast _____

Rock

Y/N

Vertical/High Angle/Low Angle

Sediment

Y/NBEach/SPit/CoveSEDIMENT TYPE: B / C / P / G / S / M / R**OIL**LOCATION OF OIL: SU / SP / H / M / LCONTINUOUS: Y/N WIDTH OF CONTINUOUS BAND: _____ mPATCHY: 10 / 20 / 30 / 40 / 50 / 60 / 70 / 80 / 90 % coverageEST. OIL THICKNESS: 0.5 cm EST. OIL PENETRATION: 715 cmPOOLED OIL: Y/N "FREE" OIL: Y/N WEATHERED: Y/N**DOCUMENTATION**

VTR: Y/N Tape Number(s) _____

PHOTOGRAPHY: Y/N Roll Number(s) 2/16

SAMPLE NUMBERS COLLECTED: _____

ECOLOGICAL EVALUATION

LOCATION Sphinx Island SITE North Side #19 OBSERVER Gardin
 DATE 4 / 16 / 1989 TIME (HHMM) 1430 TIDE HT. (m) _____

OILED ZONE: (SPLASH) ~~HIGH~~ MED LOW

SUBSTRATUM: (ROCKS) (BOULDER) (COBBLE) GRAVEL SAND MUD

LIVE BIOTA / DENSITY (#/m² or %cover-algae):

Fucus _____ Mytilus _____ Balanus _____ Littorina _____

Nucella _____ Pagurus _____ Limpets _____ Halosaccion _____

Gelidium _____ Other _____

Oil Damaged Biota _____

Clean-up Precautions _____

OILED ZONE: SPLASH (HIGH) MED LOW

SUBSTRATUM: (ROCKS) (BOULDER) (COBBLE) GRAVEL SAND MUD

LIVE BIOTA / DENSITY (#/m² or %cover-algae):

Fucus 0-25% Mytilus 0-8,000 Balanus 0-4000 Littorina 0-2,000

Nucella <1 Pagurus _____ Limpets <1 Halosaccion _____

Gelidium _____ other Porphyra 0-100%

Oil Damaged Biota Many mussels are very weak. Nucella, Littorina, and Limpets are dying in some areas.

Clean-up Precautions None on cobble beach; on boulders and bedrock try to not dislodge the mussels.

MAMMALS (#): OTTERS _____ HARBOR _____ DALL _____ OTHER _____

OTHER None

RDS: None

RAI OBSERVATIONS: In patches heavy mousse has destroyed most

CULTURAL RESOURCE EVALUATION FOR OILED SHORELINE

Date 4-16-89 Location Sphinx Island Site EAST Side
 Location Prefix SP Location Suffix _____ Segment # 19 Length 150 m

Survey Method: Air _____ (A - indicate on map) justify _____

Ground ✓ (G - indicate on map) justify _____

Known cultural resources (AHRS code) None Data source _____

Oil conditions/beach visibility Heavy

Width of beach zone surveyed 10 m Tree fringe surveyed 0

Cultural resources observed in beach zone (AHRS code) None

Cultural resources observed in tree fringe (AHRS code) None

General observations on segment's site probability:

Shore morphology Steep Beach, Rocky cliffs above the beach

Fresh water sources Stream flowing down the cliffs

Exposure wide open to the north

Probability of undiscovered sites in beach zone (circle one) 1 2 3 4 5

Monitoring during clean-up needed yes / (no)

Photos: Color Roll # _____ Frames _____

B/W Roll # _____ Frames _____

Observer(s) Mike Yabokou

Time survey started 2:23 pm Time survey ended 3:06 pm

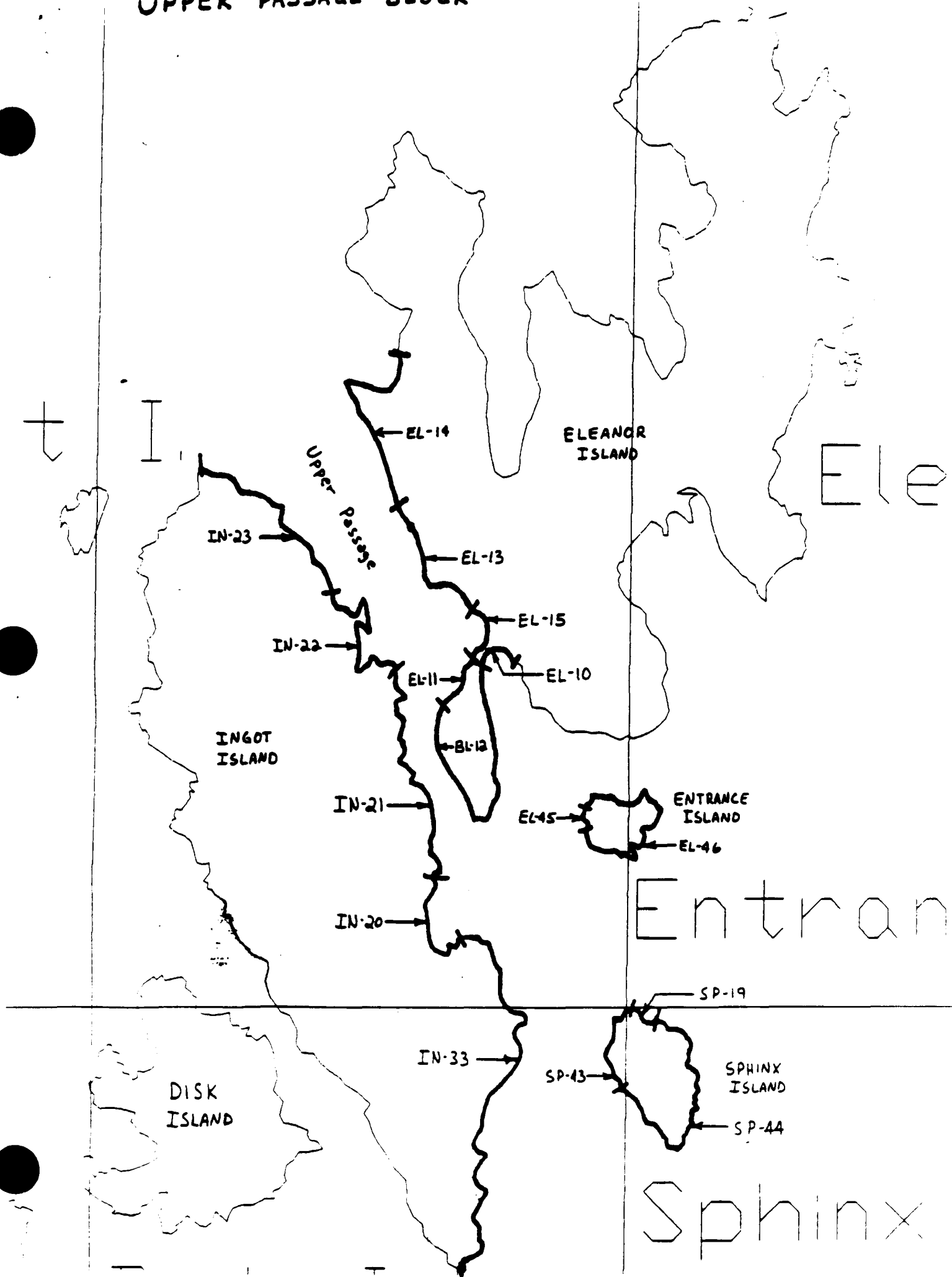
Cultural resource considerations/restraints :

IF heretofore

undiscovered cultural materials are uncovered

NOTIFY EXXON Archeologist C. Mobley immediately

UPPER PASSAGE BEVER



SHORELINE CLEANUP PROGRAM

DATE: April 21, 1989

SHORELINE SEGMENT SP-43

LOCATION: (see enclosed map) Northwest Sphinx Island

ADEC No. 32

SHORELINE ASSESSMENT DATE: 4-20-89

Recommended Cleanup Activity(ies):

Washing/flooding

Warm water at moderate/high pressure

High/low pressure washing

Priorities Considerations:

Ecological Constraints (from site survey):

Do not remove fucus holdfast and mussel clumps.

Avoid streams and banks of streams.

Archeological Constraints (from site survey):

If heretofore undiscovered cultural material is uncovered, contact Exxon archaeologist C. Mobley immediately.

Charles E. Farmer
State Historic Preservation Officer *

Date: 4/21/89

EXXON: Wm Stilp

Date: 5/4/89

FOSC: _____

Date: _____

* Signature required to satisfy stipulations in Alaska DNR
Tideland Permits.

SHORELINE OIL EVALUATION

Observer: Harry Young

Weather: Sun/Cloud/~~Rain~~/Snow/Fog

- C 16.0.0, 1:4 + vol 2 1232

LOCATION North point of S,
Spina IS SP

SITE 8.1

LOCATION PREFIX *SP*

SEGMENT NUMBER 43

LATITUDE: 60 d 30 m 05 s

LONGITUDE: 147 d 35⁻m 00 s

LENGTH OF SHORELINE SEGMENT: 550 m

ACCESS: ~~Foot~~/Vehicle/~~Boat~~/~~Barge~~/~~Helio~~/~~Float Plane~~

SHORELINE:

SHORELINE CHARACTER: *rock point*

BEACH/SPIT/COVE/_____/_____/_____/

Wave Exposure: High/Med/Low ,

Rock ☒ N ☒ ~~W~~ ☒ Vertical ☒ High Angle ☒ Low Angle

Sediment Y/N % C / 10 Types: B / C / P / G / S / M / R

Strand Line Y/N Algae/Debris/Logs

LOCATION OF OIL: SU / (SP) / (H) / (M) / (L)

CONTINUOUS: ~~15-20~~ WIDTH OF BAND: 15-20 m % of Segment 90

PATCHY: 10/20/30/40/50/60/70/80/90% coverage 70% of Segment 10

EST. OIL THICKNESS: cm EST. OIL PENETRATION: 5 - 20 cm

POOLED OIL: (Y)/N "FREE" OIL: Y/N WEATHERED: (Y) *Free Pull*

STRAND LINE CLEAN/OILED

SUMMARY OILING: Amount High/~~Med~~/Low
 Coverage Extensive/~~Moderate~~/Light

COMMENTS: Mouth Point of Re. I has changed. Re. I has moved
Tip. potentially Re. I has moved elsewhere. Recommend study of water
para + picket Beach - Re. I of Beach would be very hazardous.

To wooden due to Rock, Vertical sandstone & very poor Recrystallization is not a known + Biological (Dr. Rob: No good advises focus

C:\WP\DATA\SHOREVAL.1 *is ST: 6/1/87 - 3/1/88 -
6 self cleaning - see Pr. 201: 11: - 2 EVALUATION
attach -*

SP-43

ECOLOGICAL EVALUATION

LOCATION Sphinx Is (SP) SITE North Pt OBSERVER GA Robillard

DATE 04/20/1989 TIME (HHMM) 1105 TIDE HT. (m) +8.0

OILED ZONE: SPLASH HIGH MED LOW light in low area

SUBSTRATUM: ROCKS BOULDER COBBLE GRAVEL SAND MUD smaller boulders & cobbles in the cove

LIVE BIOTA / DENSITY (#/m² or %cover-algae):

patchy 10-35% cover;
Fucus up to 20% cover Mytilus 2-5 cm long Balanus small patches Littorina OK on exposed areas

Nucella common in tide pools Pagurus none Limpets few; most unresponsive Halosaccion -

Gelidium - Other Balanus, Mytilus, Littorinids +

unresponsive under oil, but OK in other lightly oiled areas

Oil Damaged Biota Barnacles, mussels in cove, non-responsive. On exposed spots & offshore rocks, lightly oiled + prob OK.

Clean-up Precautions Use as little as possible. No practical where algae dense. Pick up debris from pools prior to washing to reduce oiling of cobbles in lower beach. No other restrictions.

OILED ZONE: SPLASH HIGH MED LOW

SUBSTRATUM: ROCKS BOULDER COBBLE GRAVEL SAND MUD

LIVE BIOTA / DENSITY (#/m² or %cover-algae):

Fucus patchy Mytilus headland Balanus seen OK Littorina Some seen

Nucella - Pagurus - Limpets - Halosaccion -

Gelidium - Other -

Balanus + Mytilus

Oil Damaged Biota -

Clean-up Precautions -

-

-

MAMMALS (#): OTTERS - HARBOR - DALL - OTHER -

OTHER -

BIRDS: Skinned & collar cormorant ~ 30' up on bank

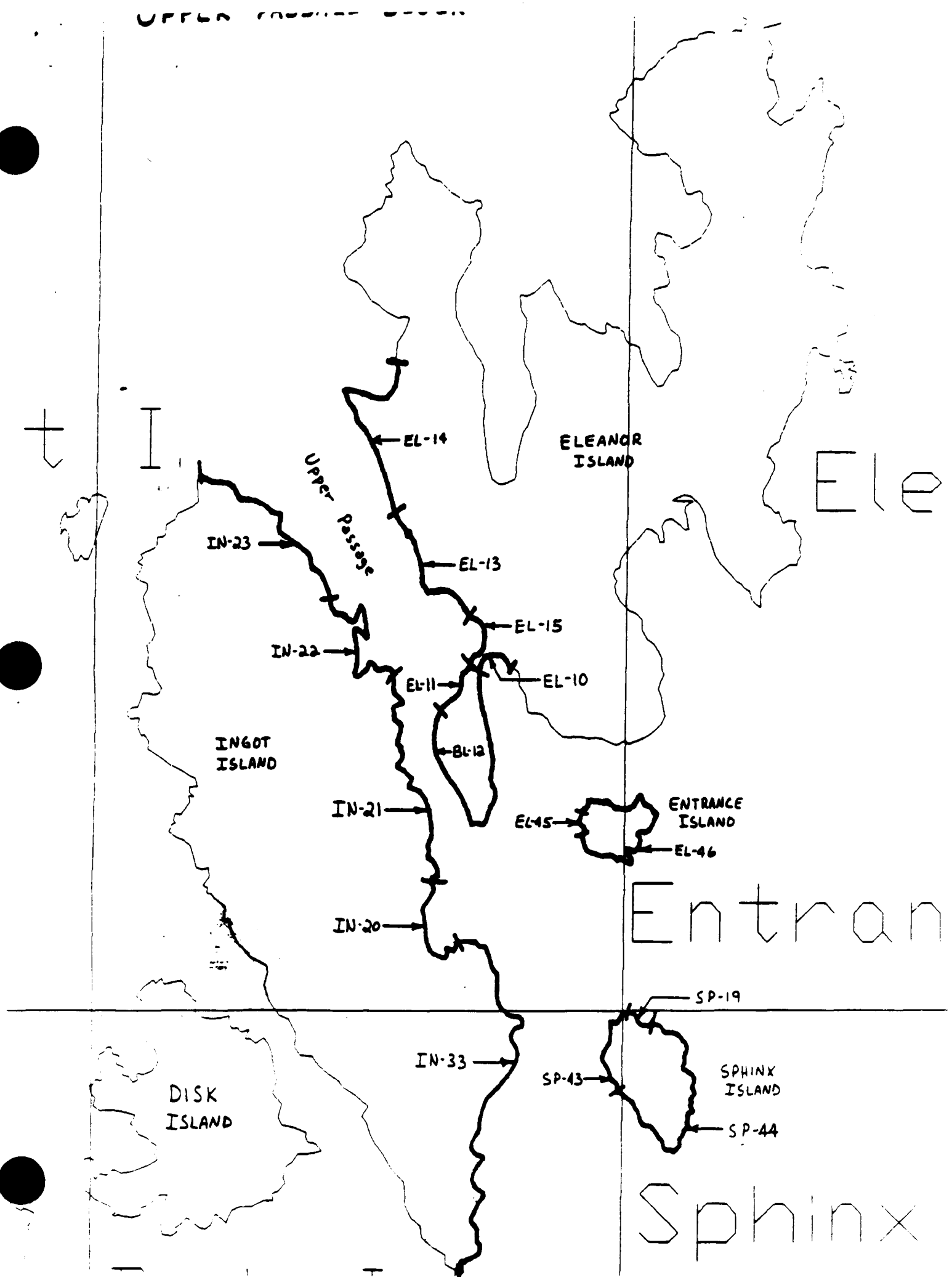
GENERAL OBSERVATIONS: -

-

(version of 4/17/89)

CULTURAL RESOURCE EVALUATION FOR OILED SHORELINE

Date 4-20-89 Location Sphinx Island Site North Point
Location Prefix SP Segment # 43 Length 550 m
Survey Method: Air _____ (A - indicate on map)
Ground ✓ (G - indicate on map)
Known cultural resources (AHRS #) None Data Source _____
Oil conditions/beach visibility moderate to heavy around the North Point
Width of beach zone surveyed up to 8 m Tree fringe surveyed 10-30 m
Cultural resources observed in beach zone (AHRS code) None
Cultural resources observed in tree fringe (AHRS code) _____
General observations justifying survey method and segment's site probability:
Shore Profile vertical rock faces with a few pocket beaches
Fresh Water Sources small streams flowing down into the pocket beaches
a Exposure exposed to the northwest
Probability of undiscovered sites in beach zone (circle one) 1 (2) 3 4 5
Monitoring during cleanup needed yes/no Collection yes/(no)
Photos: Color Roll # _____ Frames _____
B/W Roll # _____ Frames _____
Observer(s) Mike YARBOROUGH
Time survey started 11:05 Time survey ended 1:15
Cultural resource considerations/restraints: NO ACCESS TO THE UPLANDS
IF hereafter undiscovered cultural material is found
CONTACT EXXON Archeologist C. Mosley immediately.



SHORELINE CLEANUP PROGRAM

DATE: April 21, 1989

SHORELINE SEGMENT SP-44

LOCATION: (see enclosed map) Southern half of Sphinx Island

ADEC No. 32

SHORELINE ASSESSMENT DATE: 4-20-89

Recommended Cleanup Activity(ies):

Warm water at moderate/high pressure

Low/high pressure washing

Washing/flooding

Priorities Considerations:

Moderately oiled

Ecological Constraints (from site survey):

Avoid streams and banks of streams.

Do not remove fucus holdfasts and mussel clumps

Archeological Constraints (from site survey):

If heretofore undiscovered cultural material is uncovered, contact Exxon archaeologist C. Mobley immediately.

Charles E. Adams
State Historic Preservation Officer *

Date: 4/21/89

EXXON: Wm. Stirling

Date: 5/4/89

FOSC: _____

Date: _____

* Signature required to satisfy stipulations in Alaska DNR
Tideland Permits.

[revised 17 Apr 89]

SHORELINE OIL EVALUATION

Date: 04 / 20 / 89

Observer: R. Billiard

Time: 1320 h 35 m

Weather: (Sun) / Cloud / Rain / Snow / Fog
MSCB

LOCATION

LOCATION SPHINX Is

SITE East + SW coast.

LOCATION PREFIX SP

SEGMENT NUMBER 44

LATITUDE: 6 0 d 29 m 27 s

LONGITUDE: 147 d 37 m 30 s

LENGTH OF SHORELINE SEGMENT: estimated: 1800 m

ACCESS: Foot/Vehicle/Boat/Barge/Helio/Float Plane

SHORELINE:

SHORELINE CHARACTER:

BEach/SPit/COVe/ Rocky Shore / _____

Wave Exposure: High / Med / Low

Rock (Y/N) % 95 Vertical/High Angle / Low Angle

Sediment (Y/N) % 5 Types: B / (C / P) G / S / M / R

Strand Line (Y/N) Algae/Debris/Logs

on south eastern shore.

OIL

LOCATION OF OIL: SU / SP / (H / M) / L

CONTINUOUS: Y/N WIDTH OF BAND: _____ m % of Segment _____

PATCHY: 10/20/30/40/50/60/70/80/90% coverage % of Segment 100

EST. OIL THICKNESS: _____ cm EST. OIL PENETRATION: _____ cm

POOLED OIL: Y/N "FREE" OIL: Y/N WEATHERED: (Y/N)

STRAND LINE CLEAN/OILED — Vertical Rock with

SUMMARY OILING: Amount High/Med/Low
Coverage Extensive/Moderate/Light

COMMENTS: Oiling only on one beach at SE of island. Did not appear that it should be cleared, at least it is not a high priority.

ECOLOGICAL EVALUATION

2P-47

LOCATION Sphinx Island SITE SP 44 OBSERVER G.A. Robillard

DATE 04 / 20 / 1989 TIME (HHMM) 1320-1335 TIDE HT. (m) * 9.5

OILED ZONE: SPLASH HIGH MED LOW

SUBSTRATUM: ROCKS BOULDER COBBLE GRAVEL SAND MUD

LIVE BIOTA / DENSITY (#/m² or %cover-algae):

Fucus _____ Mytilus _____ Balanus _____ Littorina _____

Nucella _____ Pagurus _____ Limpets _____ Halosaccion _____

Gelidium _____ Other _____

Community is mostly Fucus, Mytilus & barnacles.

Oil Damaged Biota None observed.

Clean-up Precautions No cleanup recommended.

OILED ZONE: SPLASH HIGH MED LOW

SUBSTRATUM: ROCKS BOULDER COBBLE GRAVEL SAND MUD

LIVE BIOTA / DENSITY (#/m² or %cover-algae):

Fucus _____ Mytilus _____ Balanus _____ Littorina _____

Nucella _____ Pagurus _____ Limpets _____ Halosaccion _____

Gelidium _____ Other _____

Oil Damaged Biota _____

Clean-up Precautions _____

MAMMALS (#): OTTERS _____ HARBOR _____ DALL _____ OTHER _____

OTHER _____

BIRDS: _____

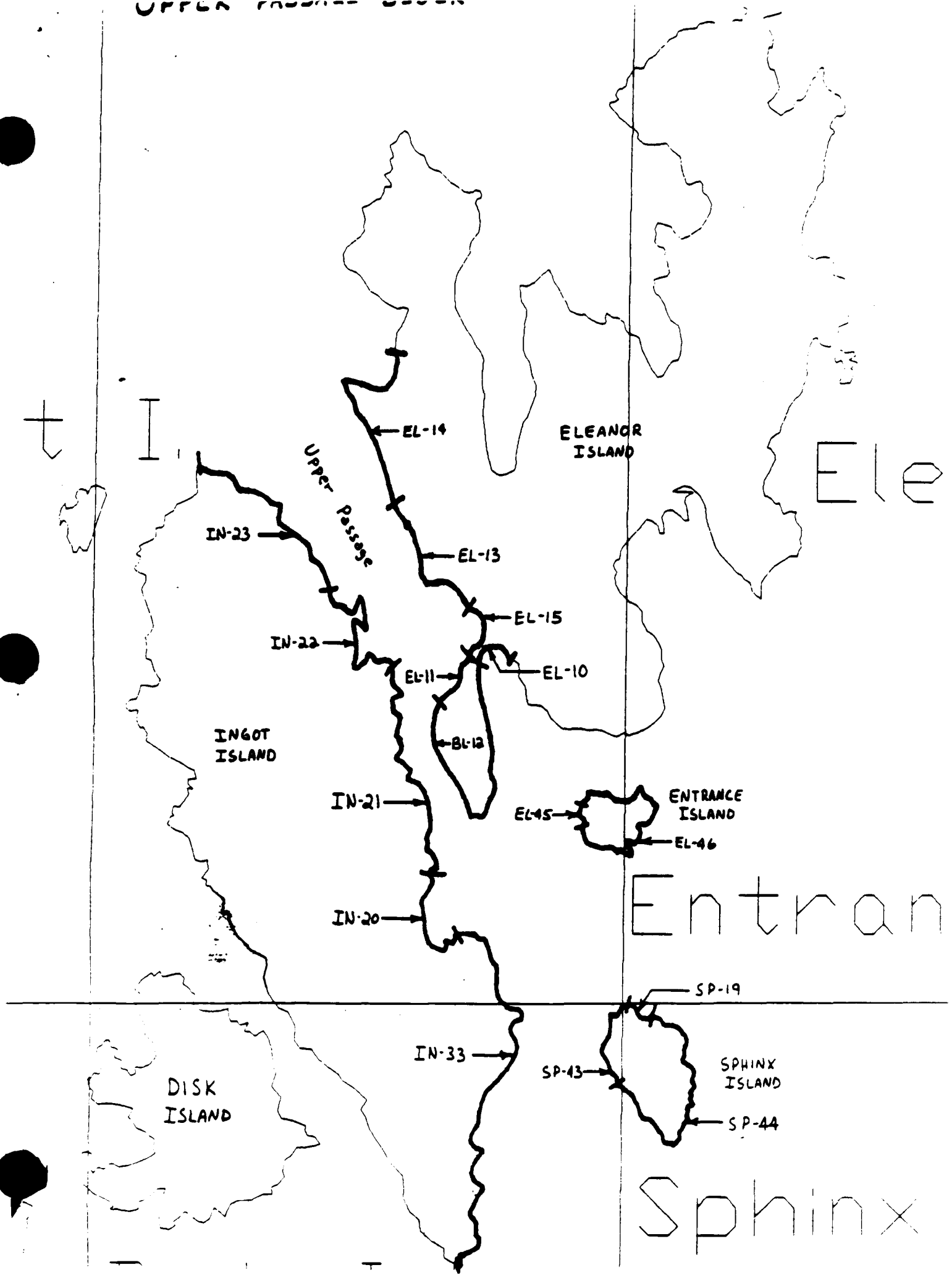
GENERAL OBSERVATIONS: _____

(version of, 4/17/89)

CULTURAL RESOURCE EVALUATION FOR OILED SHORELINE

Date 4-20-89 Location Sphinx Island Site EAST & SW COAST
Location Prefix SP Segment # 44 Length 1800 m
Survey Method: Air ☒ (A - indicate on map)
Ground ☐ (G - indicate on map)
Known cultural resources (AHRS #) NONE Data Source _____
Oil conditions/beach visibility moderate
Width of beach zone surveyed - m Tree fringe surveyed -
Cultural resources observed in beach zone (AHRS code) NONE
Cultural resources observed in tree fringe (AHRS code) NONE
General observations justifying survey method and segment's site probability:
Shore Profile VERTICAL ROCK FACES WITH A FEW POCKET BEACHES
Fresh Water Sources SMALL STREAMS FLOWING DOWN INTO THE POCKET BEACHES
Sea Exposure EAST COAST IS WIDE OPEN SW SOMEWHAT PROTECTED BY INLET
Probability of undiscovered sites in beach zone (circle one) (1) 2 3 4 5
Monitoring during cleanup needed yes/no Collection yes/no
Photos: Color Roll # _____ Frames _____
B/W Roll # _____ Frames _____
Observer(s) MIC YARBROUGH
Time survey started 11:05 Time survey ended 1:15
Cultural resource considerations/restraints:
IF heretofore undiscovered cultural remains are
found, contact EXXON Archeologist C. Morley
immediately

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SHORELINE CLEANUP PROGRAM

DATE: April 21, 1989

SHORELINE SEGMENT EN-45

LOCATION: (see enclosed map) West gravel beach on Entrance Island

ADEC No. 31

SHORELINE ASSESSMENT DATE: 4-20-89

Recommended Cleanup Activity(ies):

Washing/flooding

Warm water at moderate/high pressure

High/low pressure washing

Priorities Considerations:

Moderately oiled

Ecological Constraints (from site survey):

Avoid streams and banks of streams.

Archeological Constraints (from site survey):

If heretofore undiscovered cultural materials is uncovered, contact Exxon archaeologist C. Mobley immediately.

Mark Zeffman
State Historic Preservation Officer *

Date: 4/21/89

EXXON: *Wm. Stalings*

Date: 5/4/89

FOSC: _____

Date: _____

* Signature required to satisfy stipulations in Alaska DNR
Tideland Permits.

[revised 17 Apr 89]

SHORELINE OIL EVALUATION

Date: 4/24/89 / / 89

Observer: Harry Young

Time: 14 h 00 m

Weather: Sun / Cloud / Rain / Snow / Fog

LOCATION

LOCATION Antarctic side

SITE West Gravel Beach

LOCATION PREFIX EN

SEGMENT NUMBER 45

LATITUDE: 6 d m s

LONGITUDE: 147 d m s

LENGTH OF SHORELINE SEGMENT: 130 m

ACCESS: Foot / Vehicle / Boat / Barge / Helio / Float Plane

SHORELINE:

SHORELINE CHARACTER:

BEach / SPit / COve / Beach /

Wave Exposure: High / Med / Low - Normal - Evidence of Two - in place? Distinct terraces - moderate occasional high energy

Rock Y/N % 10 Vertical / High Angle / Low Angle

Sediment Y/N % Types: B / C / P / G / S / M / R

Strand Line Y/N Algae / Debris / Logs

OIL

LOCATION OF OIL: SU / SP / H / M / L

CONTINUOUS: Y/N WIDTH OF BAND: 10 m % of Segment 95

PATCHY: 10/20/30/40/50/60/70/80/90% coverage % of Segment 50

EST. OIL THICKNESS: 15-20 cm EST. OIL PENETRATION 15 cm

POOLED OIL: Y/N "FREE" OIL: Y/N WEATHERED:

STRAND LINE CLEAN / OILED

SUMMARY OILING: Amount High / Med / Low
Coverage Extensive / Moderate / Light

COMMENTS: Only bottom third of Beach appears oiled on cursory inspection - however Penetration of oil through cobbles to 15-30 cm - No Pooled oil

Some accumulation of moss beneath large cobbles

GAR notes the amt. of oil in beach may not be large even tho rocks are coated. Oil not heavily weathered.

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ECOLOGICAL EVALUATION

LOCATION ENTRANCE Is SITE EN 45 OBSERVER Robillard

DATE 04 / 20 / 1989 TIME (HHMM) 15 TIDE HT. (m) ~3m

OILED ZONE: SPLASH HIGH MED LOW

SUBSTRATUM: ROCKS BOULDER COBBLE GRAVEL SAND MUD

LIVE BIOTA / DENSITY (#/m² or %cover-algae):

Fucus _____ Mytilus _____ Balanus _____ Littorina _____

Nucella _____ Pagurus _____ Limpets _____ Halosaccion _____

Gelidium _____ Other _____

No organisms

Oil Damaged Biota _____

Clean-up Precautions _____

OILED ZONE: SPLASH HIGH MED LOW

SUBSTRATUM: ROCKS BOULDER COBBLE GRAVEL SAND MUD

LIVE BIOTA / DENSITY (#/m² or %cover-algae):

Fucus _____ Mytilus _____ Balanus _____ Littorina _____

Nucella _____ Pagurus _____ Limpets _____ Halosaccion _____

Gelidium _____ Other _____

Oil Damaged Biota _____

Clean-up Precautions _____

MAMMALS (#): OTTERS _____ HARBOR _____ DALL _____ OTHER _____

OTHER _____

BIRDS: _____

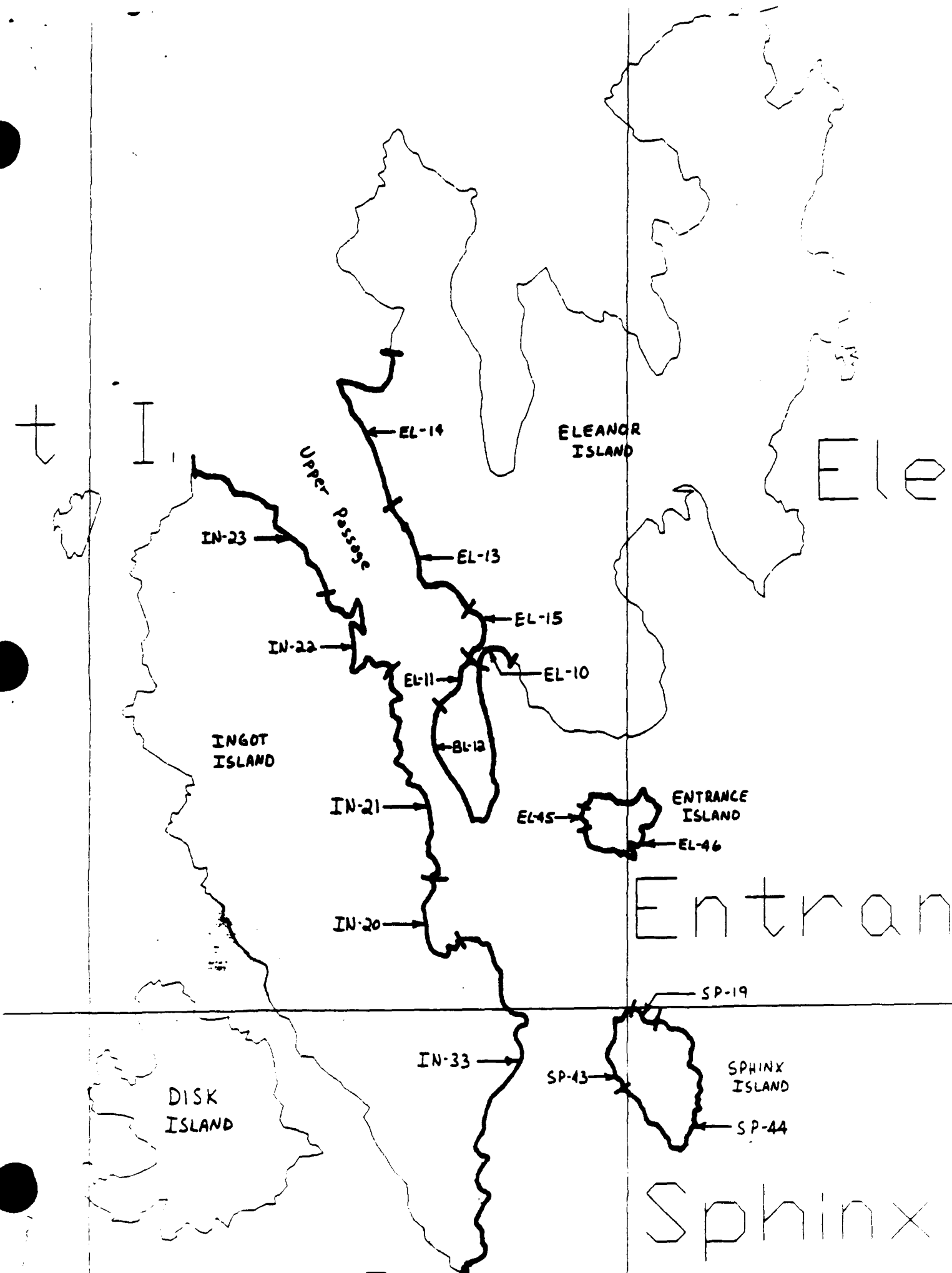
GENERAL OBSERVATIONS: _____

(version of 4/17/89)

CULTURAL RESOURCE EVALUATION FOR OILED SHORELINE

Date 4-20-89 Location ENTRANCE I Site WEST GRAVEL BEACH
Location Prefix EN Segment # 45 Length 130 m
Survey Method: Air _____ (A - indicate on map)
Ground ✓ (G - indicate on map)
Known cultural resources (AHRS #) NONE Data Source _____
Oil conditions/beach visibility moderate
Width of beach zone surveyed 8-10 m Tree fringe surveyed 10 m
Cultural resources observed in beach zone (AHRS code) NONE
Cultural resources observed in tree fringe (AHRS code) CMT
General observations justifying survey method and segment's site probability:
Shore Profile moderately sloping beach in front of low dunes
Fresh Water Sources stream at the northern end of the beach
Sea Exposure unprotected, wide open to the west
Probability of undiscovered sites in beach zone (circle one) 1 2 3 4 5
Monitoring during cleanup needed yes/no Collection yes/no
Photos: Color Roll # _____ Frames _____
B/W Roll # _____ Frames _____
Observer(s) MHC / A. B. Bouch
Time survey started 1:40 pm Time survey ended 3:09 pm
Cultural resource considerations/restraints:
IF hereafter undiscovered cultural material is found
contact EXXON Archeologist C. Mosley immediately.

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Ele

Entran

Sphinx

SHORELINE CLEANUP PROGRAM

DATE: April 21, 1989

SHORELINE SEGMENT EN-46

LOCATION: (see enclosed map) South and north Entrance Island

ADEC No. 31

SHORELINE ASSESSMENT DATE: _____

Recommended Cleanup Activity(ies):

Warm water at moderate/high pressure

High/low pressure washing

Priorities Considerations:

Ecological Constraints (from site survey):

Avoid streams and banks of streams.

Minimize disturbance on adjacent rocky areas especially mid intertidal areas with mussels and algae.

Archeological Constraints (from site survey):

If heretofore undiscovered cultural material is uncovered, contact Exxon archaeologist C. Mobley immediately.

Charles E. Adams
State Historic Preservation Officer *

Date: 4/21/89

EXXON: Wm Stirling

Date: 5/4/89

FOSC: _____

Date: _____

* Signature required to satisfy stipulations in Alaska DNR Tideland Permits.

[revised 17 Apr 89]

SHORELINE OIL EVALUATION

Date: 04 / 20 / 89

Observer: G. A. P. [unclear]

Time: 1343h _____m

Weather: Sun/Cloud/Rain/Snow/Fog

LOCATION

LOCATION ROTTEN [unclear]

SITE 0113 L

LOCATION PREFIX EN

SEGMENT NUMBER 46

LATITUDE: 6 ___d ___m ___s

LONGITUDE: 147 d ___m ___s

LENGTH OF SHORELINE SEGMENT: 700 walked; 1400 m flown but not walked.

ACCESS: Foot/Vehicle/BOat/Barge/HELio/Float Plane

SHORELINE:

SHORELINE CHARACTER:

BEach/SPit/Cove/ Rocky headlands

Wave Exposure: High/Med/Low

Rock Y/N % 50 Vertical/High Angle/Low Angle

SEdiment Y/N % 40 Types: B / C / P / G / S / M / R

Strand Line Y/N Algae/Debris/Logs

OIL

LOCATION OF OIL: SU / SP / H / M / L

low seams clear of oil though hard to see thru water at high tide

CONTINUOUS: Y/N WIDTH OF BAND: 10-30 m % of Segment 20

PATCHY: 10/20/30/40/50/60/70/80/90% coverage % of Segment 80

EST. OIL THICKNESS: 1-3 cm EST. OIL PENETRATION: up to 30 cm in beach up ground

POOLED OIL: Y/N Small patches "FREE" OIL: Y/N WEATHERED: Y/N

STRAND LINE CLEAN/OILED

SUMMARY OILING: Amount High/Med/Low Coverage Extensive/Moderate/Light

COMMENTS: 1st pocket beach on v side w boulders on coarse sand w oil patches. Next beach w small patches of murre, boulders. Next two beaches w patches of murre. Last beach cobble on coarse sand exposed oil up to 20 cm into ground

ECOLOGICAL EVALUATION

LOCATION ENTRANCE IS. SITE EN 46 OBSERVER E. J. ...

DATE 5 / 20 / 1989 TIME (HHMM) 1415 TIDE HT. (m) 3.8

OILED ZONE: SPLASH HIGH MED LOW
 SUBSTRATUM: ROCKS BOULDER COBBLE GRAVEL SAND MUD as entire beach or as base for cobbles.

LIVE BIOTA / DENSITY (#/m² or %cover-algae):

Fucus dense (80%) Mytilus patchy Balanus patchy Littorina Tide too high to see most cutters.
 Nucella _____ Pagurus _____ Limpets _____ Halosaccion _____

Gelidium _____ Other _____
Large cover on NE end ENTRANCE to low dense Fucus + Mytilus community on offshore rocks + land bands. Tide too high to see most of cutters.

Oil Damaged Biota Rel. few seem to be affected; most of oil is on gravel in rubble where there are few cutters.

Clean-up Precautions None; cleanup is necessary.

OILED ZONE: SPLASH HIGH MED LOW

SUBSTRATUM: ROCKS BOULDER COBBLE GRAVEL SAND MUD

LIVE BIOTA / DENSITY (#/m² or %cover-algae):

Fucus _____ Mytilus _____ Balanus _____ Littorina _____
 Nucella _____ Pagurus _____ Limpets _____ Halosaccion _____
 Gelidium _____ Other _____

Oil Damaged Biota _____

Clean-up Precautions _____

MAMMALS (#): OTTERS _____ HARBOR _____ DALL _____ OTHER _____
 OTHER None

BIRDS: _____

GENERAL OBSERVATIONS: _____

(version of, 4/17/89)

CULTURAL RESOURCE EVALUATION FOR OILED SHORELINE

Site 4-20-89 Location ENTRANCE I. Site _____
Location Prefix EN Segment # 46 Length 2230 m
Survey Method: Air ✓ (A - indicate on map)
Ground _____ (G - indicate on map)
Known cultural resources (AHRS #) NONE Data Source _____
Oil conditions/beach visibility MODERATE
Width of beach zone surveyed - m Tree fringe surveyed -
Cultural resources observed in beach zone (AHRS code) NONE
Cultural resources observed in tree fringe (AHRS code) NONE
General observations justifying survey method and segment's site probability:
Shore Profile VERTICAL ROCK CLIFFS AND A FEW ROCKY BEACHES
BACKED BY VERTICAL ROCK FACES
Fresh Water Sources NUMEROUS SMALL STREAMS
Sea Exposure NO PROTECTED SHORES
Probability of undiscovered sites in beach zone (circle one) (1) 2 3 4 5
Monitoring during cleanup needed yes/no Collection yes/no
Photos: Color Roll # _____ Frames _____
B/W Roll # _____ Frames _____
Observer(s) MIKE YARBROUGH
Time survey started 1:40 Time survey ended 3:07
Cultural resource considerations/restraints:
IF HERETOFORE UNDISCOVERED CULTURAL REMAINS ARE FOUND,
CONTACT EXXON ARCHEOLOGIST C. MOSLEY IMMEDIATELY

C:\WP\DATA\CULTURED.SHO

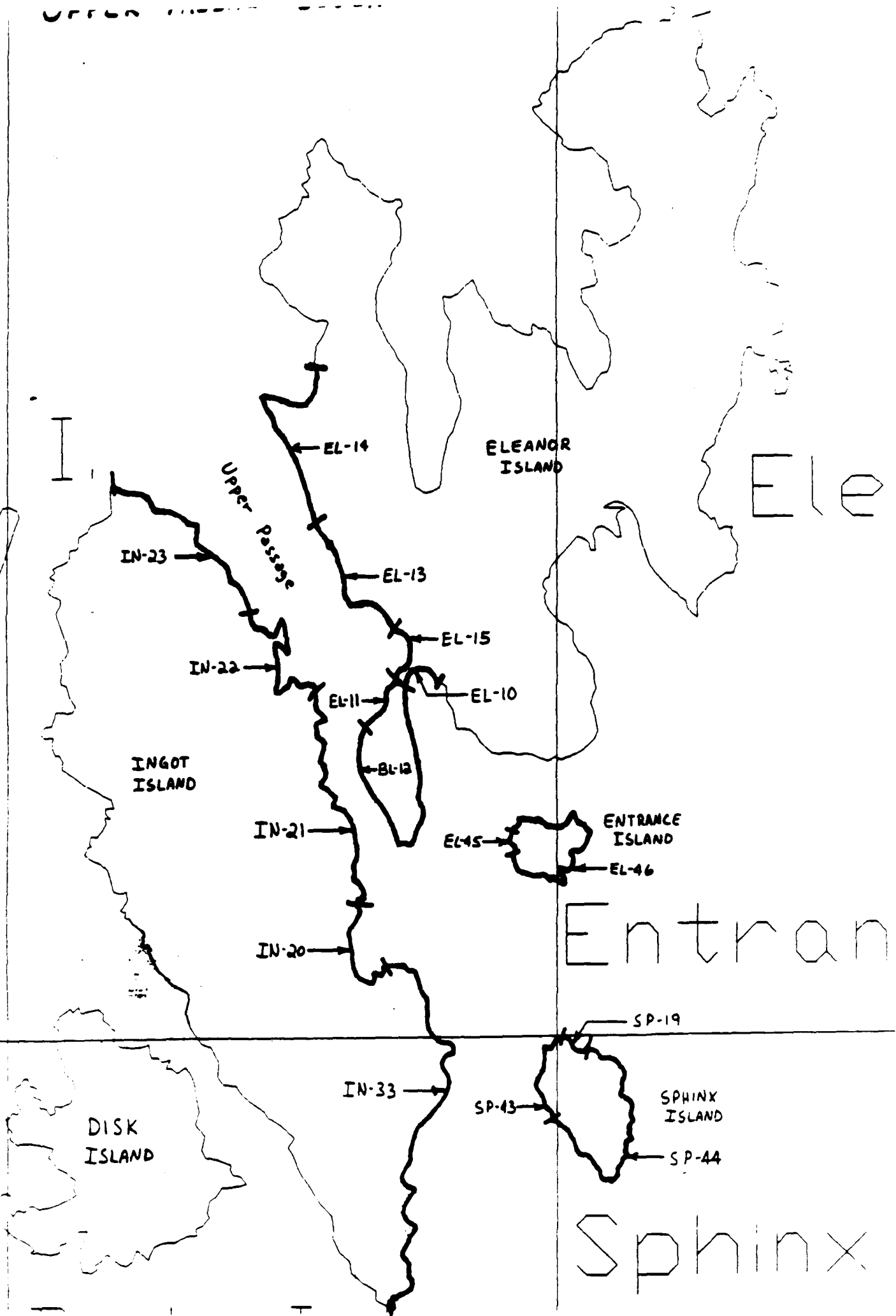
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Ele

Entran

Sphinx



Block Island
BL-12

TREATMENT MANUAL, 6/15/79

SEG BL-12 INSPECTION # 1

SEGMENT

DATE July 14, 1989

INSPECTION RECORD

7/15/89
[Signature]

Shoreline Treatment Process(es) Completed for this Segment



Hot water wash



Mechanical



Warm water wash



Non-mechanical



Water deluge



Other

Exxon

Treatment as indicated above has been completed. Request demobilization from this segment.

Comments Treatment of segment BL-12 is

complete and ready for demobilization and deployment to

Signature Steve E. Ramsauer

Date: 7/14/89 Time: 19:00

Printed Name Steve E. Ramsauer

Existing Shoreline Condition As Visually Determined by USCG

Surface Oil

Subsurface Oil

Percent

Degree of Oiling



Yes



No

0

Heavy

30

Medium

30

Light

20

Very Light

20

None

100 %

Comments no signs of subsurface
oil visible

Reassessment



Yes - necessary



No - not necessary unless re-oiled

ADEC rep Comments AGREE WITH CG EVALUATION. EXXON NEEDS TO
PICK UP OILED POM POMS, DEBRIS.

Signature John Bauer

Date: 7/14/89 Time: 7:20 pm

Printed Name JOHN BAUER

FOSC rep

Demobilization approved/disapproved

Comments AGREE WITH ADEC COMMENTS WITH EXXON'S CONTAMINATION.

Signature [Signature]

Date: 7/14/89 Time: 19:20

Printed Name [Signature]

SEG EL-13 INSPECTION # 1

SEGMENT

DATE 7-4-89

INSPECTION RECORD

J.A.M.
7/12/89

Shoreline Treatment Process(es) Completed for this Segment

- ☒ Hot water wash
☒ Warm water wash
☒ Water deluge

- ☐ Mechanical
☒ Non-mechanical WIPING & SWABES
☐ Other _____

Exxon

Treatment as indicated above has been completed. Request demobilization from this segment.

Comments TREATMENT OF SEGMENT IS COMPLETE AND
READY FOR DEMOBILIZATION AND REDEPLOYMENT TO NEW SEGMENT

Signature MELVIN D. MOES Date: 7/4/89 Time: 7:10 AM

Printed Name MELVIN D. MOES

Existing Shoreline Condition As Visually Determined by USCG

Surface Oil

Percent Degree of Oiling

0 Heavy
10 Medium
40 Light
20 Very Light
30 None

100 %

Subsurface Oil

☐ Yes ☒ No

Comments _____

Reassessment

☒ Yes - necessary ☐ No - not necessary unless re-oiled

ADEC rep Comments Gross contamination removed. Monitor source:
around mussel test site to see if any mobile oil exists.

Recommend moving to a heavy contaminated area.

Signature Dennis R. Timmons Date: 7/4/89 Time: 2:30

Printed Name Dennis R. Timmons Envr Engr, ADEC

FOSC rep

Demobilization approved / disapproved

Comments no mobile oil. around mussel test sight moderately

oil. Based on this there are no further action with this oil source
no effort to remove mobile oil.

Signature [Signature] Date: 7/4/89 Time: 2:30

Printed Name Paul R. Timmons Envr

COPY: EXXON ADEC FOSC ISCC

SEG EL-14 INSPECTION # 1

SEGMENT

DATE 7-11-89

INSPECTION RECORD

J.A.M.
7/12/89

Shoreline Treatment Process(es) Completed for this Segment



Hot water wash



Mechanical



Warm water wash

Non-mechanical WASH & DRY

Water deluge



Other _____

Exxon

Treatment as indicated above has been completed. Request demobilization from this segment.

Comments TREATMENT OF SEGMENT EL-14 IS COMPLETE AND READY FOR DEMOBILIZATION AND REDEPLOYMENT TO NEXT SEGMENTSignature Mark W. JonesDate: 7/11/89 Time: 7:10 AMPrinted Name MARK W. JONES

Existing Shoreline Condition As Visually Determined by USCG

Surface Oil

Subsurface Oil

Percent Degree of Oiling

☐ Yes☒ No0

Heavy

Comments _____

10

Medium

30-60

Light

0

Very Light

60

None

100 %

Reassessment



Yes - necessary



No - not necessary unless re-oiled

ADEC rep Comments Gross contamination removed. Mobile oilnot present on inspection. Remained moving to heavier oiled segment. Treatment stabilized.Signature Deputy R. ThompsonDate: 7/11/89 Time: 1807Printed Name Deputy R. Thompson, ENV ENG, ADEC

FOSC rep

Demobilization approved/disapprovedComments no mobile oilSignature Paul R. JonesDate: 7/11/89 Time: _____Printed Name Paul R. Jones CWS 2

COPY: EXXON ADEC FOSC ISCC

7/22/89

sid

TREATMENT MANUAL, 6/15/89

SEG IN-20 INSPECTION # 1

SEGMENT

DATE 7/19/89

INSPECTION RECORD

Shoreline Treatment Process(es) Completed for this Segment



Hot water wash



Mechanical



Warm water wash



Non-mechanical



Water deluge



Other

Exxon

Treatment as indicated above has been completed. Request demobilization from this segment.

Comments Treatment of segment IN-20 is complete
and ready for demobilization to next segment.

Signature Steve E. RamsowerDate: 7/19/89 Time: 16:30Printed Name Steve E. Ramsower TF-2 Commander

Existing Shoreline Condition As Visually Determined by USCG

Surface Oil

Percent

Degree of Oiling

0

Heavy

15

Medium

40

Light

0

Very Light

45

None

100 %

Subsurface Oil



Yes



No

Comments

Reassessment



Yes - necessary



No - not necessary unless re-oiled

ADEC rep Comments NOT AVAILABLE

Signature

Date: / / Time:

Printed Name

FOSC rep

Demobilization approved/disapprovedComments NO CROSS CONTAMINATION

Signature

Date: 7/21/89 Time: 16:45

SEG IN-21 INSPECTION # 1

SEGMENT

DATE JULY 5, 1989

INSPECTION RECORD

Shoreline Treatment Process(es) Completed for this Segment



Hot water wash



Mechanical



Warm water wash

Non-mechanical HAND WASH & RINSE

Water deluge



Other _____

Exxon

Treatment as indicated above has been completed. Request demobilization from this segment.

Comments TREATMENT OF SEGMENT IS COMPLETE AND ISREADY FOR DEMOBILIZATION AND REDEPLOYMENT TO NEXT SEGMENTSignature MELVIN D. JOETDate: 7/5/89 Time: 7:15 AMPrinted Name MELVIN D. JOET

Existing Shoreline Condition As Visually Determined by USCG

Surface Oil

Subsurface Oil

Percent Degree of Oiling

☒ Yes☐ No0

Heavy

0

Medium

20

Light

20

Very Light

60

None

100 %

Comments ONE GRAVEL BEACHSEEN IN VAS BY 30 YDSALL CONTAMINATION APPROX 6"DEEP VERY LIGHT OIL

Reassessment



Yes - necessary



No - not necessary unless re-oiled

ADEC rep

Comments Gross contamination removed. Mobile oilnot present on inspection. Recommend movingto a more heavily contaminated area.Signature Denny R. TimmonsDate: 7/13/89 Time: 10:03Printed Name DENNY R. TIMMONS Engr, ADEC

FOSC rep

Demobilization approved/disapprovedComments NO MOBILE OILSignature Paul TorreyDate: 7/13/89 Time: 1005Printed Name Paul Torrey CWO 3

COPY: EXXON ADEC FOSC ISCC

SEG IN-22

INSPECTION # 1

DATE 6/12/89

SEGMENT INSPECTION RECORD

Shoreline Treatment Process(es) Completed for this Segment

☒ Hot water wash	☒ Mechanical
☒ Warm water wash	☒ Non-mechanical <u>wiping</u>
☒ Water deluge	☐ Other _____

Exxon

Treatment as indicated above has been completed. Request demobilization from this segment.

Comments Segment IN-22 is environmentally clean.

Signature Steve E. Ramsauer Date: 6/12/89 Time: 4:45 p.m.

Printed Name Steve E. Ramsauer

Existing Shoreline Condition As Visually Evaluated by ADEC and USCG

Surface Oil

☐ Heavily oiled
☒ Medium oiled
☐ Lightly oiled
☐ Very lightly oiled
☐ No oil

Subsurface Oil

☐ Heavily oiled
☒ Medium oiled
☐ Lightly oiled
☐ Very lightly oiled
☐ No oil

☐ No surface oil and no subsurface oil

Reassessment

☒ Yes - necessary ☐ No - not necessary unless re-oiled

ADEC rep

ADEC REP MR TARTER DOES NOT CONCUR W/ "ENVIRONMENTALLY CLEAN" STATEMENT IN COMMENT SECTION ABOVE. REQUEST FOR POM FROM ADEC BEING UP. MAINTAINING COMMENTS ON REMEDIATION BASIS. CONTACT W/ ADEC @ PRESENT.

Time to focus on higher priority areas & necessary to reassess.

Signature _____ Date: / / Time: _____

Printed Name _____

FOSC rep

Demobilization approved/disapproved APPROVED

Comments MUD FLAT AREA NOT WORKED AS PER SCAT SURVEY -

EXXON TO MAINTAIN & CHECK CONDITIONS TO 3 SITES IDENTIFIED BY SCAT

Signature Thomas D. Harrison Date: 6/12/89 Time: 1646

Printed Name Thomas D. Harrison, LT, USCG

SEG SP-19 INSPECTION # 1DATE 7/14/89

SEGMENT

INSPECTION RECORD

TREATMENT MANUAL, 6/15/89

Shoreline Treatment Process(es) Completed for this Segment



Hot water wash



Mechanical



Warm water wash



Non-mechanical



Water deluge



Other

Exxon

Treatment as indicated above has been completed. Request demobilization from this segment.

Comments Treatment of Segment SP-19 is
complete for demobilization and deployment to new segment.

Signature Steve E. RamsauerDate: 7/14/89 Time: 11:30Printed Name Steve E. Ramsauer

Existing Shoreline Condition As Visually Determined by USCG

Surface Oil

Percent

Degree of Oiling

Subsurface Oil



Yes



No

0

Heavy

30

Medium

40

Light

20

Very Light

10

None

100 %

Comments Light contamination
in channel and sand areas

Reassessment



Yes - necessary



No - not necessary unless re-oiled

ADEC rep Comments Agree with surface oiling evaluation. Light
and moderate contamination of subsurface.

Signature John BauerDate: 7/14/89 Time: 11:40Printed Name JOHN BAUER

FOSC rep

Demobilization approved/disapprovedComments See comments for surface contaminationSignature [Signature]Date: 7/14/89 Time: 12:40Printed Name [Name]

SEG SR 117 INSPECTION # 1

SEGMENT

DATE 7-11-89

INSPECTION RECORD

39d
7/15/89

Shoreline Treatment Process(es) Completed for this Segment

- ☒ Hot water wash
☒ Warm water wash
☒ Water deluge

- ☐ Mechanical
☒ Non-mechanical SWAB & RINSE
☐ Other _____

Exxon

Treatment as indicated above has been completed. Request demobilization from this segment.

Comments TREATMENT OF SEGMENT SR 117 IS COMPLETE AND READY FOR DEMOBILIZATION AND DEPLOYMENT TO NEXT SEGMENT

Signature M. D. JonesDate: 7/11/89 Time: 7:15 AMPrinted Name M. D. Jones

Existing Shoreline Condition As Visually Determined by USCG

Surface Oil

Percent Degree of Oiling

0 Heavy
10 Medium
50 Light
10 Very Light
30 None

100 %

Subsurface Oil

☒ Yes ☐ No

Comments in sandy moderate areas

Reassessment

☒ Yes - necessary

☐ No - not necessary unless re-oiled

ADEC rep Comments Subsurface moderate to lightly oiled in areas. Agree with surface oiling evaluation.

Signature John BauerDate: 7/11/89 Time: 11:30 AMPrinted Name JOHN BAUER

FOSC rep

Demobilization approved/disapprovedComments in good conditionSignature [Signature]Date: 7/13/89 Time: 11:30Printed Name [Name]

SEG SP-44 INSPECTION # 1
DATE 7-11-89

SEGMENT
INSPECTION RECORD

Shoreline Treatment Process(es) Completed for this Segment

- ☒ Hot water wash
- ☒ Warm water wash
- ☒ Water deluge

- ☐ Mechanical
- ☒ Non-mechanical SHORE & AIR LAWS
- ☐ Other _____

Exxon

Treatment as indicated above has been completed. Request demobilization from this segment.

Comments TREATMENT OF SEGMENT SP-44 IS COMPLETE
AND READY FOR DEMOBILIZATION AND REDEPLOYMENT TO NEW SEGMENT
Signature [Signature] Date: 7/11/89 Time: 7:15 AM
Printed Name [Signature]

Existing Shoreline Condition As Visually Determined by USCG

Surface Oil		Subsurface Oil	
Percent	Degree of Oiling	☐ Yes	☒ No
<u>0</u>	Heavy	Comments _____ _____ _____ _____ _____	
<u>1</u>	Medium		
<u>59</u>	Light		
<u>0</u>	Very Light		
<u>40</u>	None		
100 %			

Reassessment

- ☒ Yes - necessary
- ☐ No - not necessary unless re-oiled

ADEC rep Comments The gross contamination was removed.
Reassessment moving onto another segment.
Signature [Signature] Date: 7/11/89 Time: 10:55
Printed Name DOUGLAS DASHER, RETIRED, ADEC

FOSC rep

Demobilization approved/disapproved
Comments no gross contamination. Some facilities problems
with NE sector will remain deployed to protect.
Signature [Signature] Date: 7/11/89 Time: 10:56
Printed Name PAUL TURKEY CW02

Entrance Is.

DATE JUL 3 1989 EN-45 INSPECTION RECORD

Shoreline Treatment Process(es) Completed for this Segment

- | | |
|---|--|
| ☒ Hot water wash | ☐ Mechanical |
| ☒ Warm water wash | ☒ Non-mechanical <u>WASH WIFE & RAY LAYS</u> |
| ☒ Water deluge | ☐ Other |

Exxon

Treatment as indicated above has been completed. Request demobilization from this segment.

Comments TREATMENT OF SEGMENT EN-45 IS COMPLETE AND IS
READY FOR DEMOBILIZATION AND REDEPLOYMENT TO NEW SEGMENT

Signature Melvin D. Moore Date: 7/5/89 Time: 7:15

Printed Name MELVIN D. MOORE

Existing Shoreline Condition As Visually Determined by USCG

Surface Oil		Subsurface Oil
Percent	Degree of Oiling	☐ Yes ☒ No
_____	Heavy	Comments _____ _____ _____ _____ _____
_____	Medium	
<u>50</u>	Light	
<u>10</u>	Very Light	
<u>40</u>	None	
100 %		

Reassessment

- ☒ Yes - necessary ☐ No - not necessary unless re-oiled

ADEC rep Comments Grass contamination removed. No mobile oil
found on beach. Recommend moving to a heavily
contaminated beach segment

Signature Denny R. Timmons Date: 7/13/89 Time: 10:10 AM

Printed Name DENNY R. TIMMONS, ENV. ENGR, ADEC

FOSC rep

Comments Demobilization approved/disapproved
NO mobile oil

Signature Paul R. Kelly Date: 7/13/89 Time: 10:15

Printed Name PAUL R. KELLY CWO2

COPY: EXXON ADEC FOSC ISCC

SEG EN-46 INSPECTION # 1

SEGMENT

DATE 7-14-89

INSPECTION RECORD

J.A.M.
7/12/89

Shoreline Treatment Process(es) Completed for this Segment

☒ Hot water wash☒ Warm water wash☒ Water deluge☐ Mechanical☒ Non-mechanical WIPING & SURFACES☐ Other _____

Exxon

Treatment as indicated above has been completed. Request demobilization from this segment.

Comments TREATMENT OF SEGMENT EN-46 IS COMPLETE ANDREADY FOR DEMOBILIZATION & RETROFITMENT TO NEW SEGMENT.Signature Melvin D. ManDate: 7/14/89 Time: 7:15 AMPrinted Name MELVIN D. MAN

Existing Shoreline Condition As Visually Determined by USCG

Surface Oil

Percent Degree of Oiling

<u>0</u>	Heavy
<u>10</u>	Medium
<u>10</u>	Light
<u>10</u>	Very Light
<u>70</u>	None

100 %

Subsurface Oil

☐ Yes ☒ No

Comments _____

Reassessment

☒ Yes - necessary☐ No - not necessary unless re-oiledADEC rep Comments Gross contamination removed Monitor sensors
to check on mobile oil coming from under rocks, bouldersRecommend moving to heavily oiled area at this timeSignature Denny L. TimmerDate: 7/14/89 Time: 2:30Printed Name Denny L. Timmer, Sr. Eng, ADEC

FOSC rep

Demobilization approved/disapproved

Comments NO GROSS CONTAMINATION REMOVED. EXISTING WITHUSCG OIL SENSORS BEING TESTED SIGHTS TO WHICH NO MOBILE OIL EXIST.Signature Paul R. PuckeyDate: 7/14/89 Time: 2:30Printed Name Paul R. Puckey CWO2

COPY: EXXON ADEC FOSC ISCC

(version 5/04/89)

SHORELINE PRE-CLEANUP ASSESSMENT BLOCK REPORT

Location (see enclosed map): Upper Passage Block

Includes Shoreline Segments: EL-15, IN-23

Submitted :

William Staley
(for Exxon)

Date: 5/6/89

8 FOSC Approval:

CS Polk

Date: 5/9/89

Endorsed by ISCC 5-7-89 Sam E. K. CDR, NOAA
The cleanup procedures identified in the Shoreline Cleanup Program are recommended. Modifications to these systems can be made in the field. Exxon and other field personnel are encouraged to suggest innovations and productivity enhancements to the OSC's on-scene representative. The OSC's representative has the authority to approve on-site modifications. The Field Resource Team should be consulted if these actions do not fit within the Ecological Constraints of the Shoreline Cleanup Program. Requirements for safety and the protection of cultural material must be observed.

Distribution:

Exxon Shoreline Coordinator
Exxon Shoreline Supervisor
Exxon SCAT file

FOSC
CDFU
NOAA
EPA
USDA (FS)
USFW
A. DEC
A. FG
A. DNR
CAC
PWSCA
USFS

EXXON VALDES

SHORELINE TREATMENT APPROVAL

SHORELINE SEGMENT NUMBER EL-15

SHORELINE SEGMENT NAME WEST SIDE OF ELEPHANT ISLAND

SUBMITTED FOR APPROVAL 5/25 89

COMMENTS:

SEGMENT EL-15 IS ENVIRONMENTALLY CLEAN WITH NO REMAINING OIL.

[Signature]
Signature of Exxon rep

ADEC comments on the condition of this shoreline segment and action recommendation.

Signature of ADEC rep

Coast Guard Comments and Action.

X Completed removal of gross contamination to the extent that the oil will not migrate. Site will require reassessment at a later date to determine future treatment.

 The majority of surface oil contamination has been removed. The site will require reassessment at a later date to determine future treatment.

 All contamination has been removed. No further treatment required unless re-oiled.

[Signature]
Signature of Coast Guard rep
5/27/89

XC: ADEC
EXXON
FSOC

EXXON VALDES

SHORELINE TREATMENT APPROVAL

SHORELINE SEGMENT NUMBER

IN-23

SHORELINE SEGMENT NAME

NORTHERN TRIST TSCANA

SUBMITTED FOR APPROVAL

5/28/89

COMMENTS:

IN-23 IS ENVIRONMENTALLY CLEAN

[Signature]
signature of EXXON rep

ADEC comments on the condition of this shoreline segment and action recommendation.

*ADEC Rep Bob Cannone Accompanied The Survey Party And
IS IN AGREEMENT WITH THE FINDINGS.*

signature of ADEC rep

Coast Guard Comments and Action.

X Completed removal of gross contamination to the extent that the oil will not migrate. Site will require reassessment at a later date to determine future treatment.

____ The majority of surface oil contamination has been removed. The site will require reassessment at a later date to determine future treatment.

____ All contamination has been removed. No further treatment required unless re-oiled.

[Signature]
signature of Coast Guard rep
5/28/89

XC: ADEC
EXXON
PSOC

IN 24B

25JUL89

SEG IN 24B INSPECTION # _____

SEGMENT

DATE 8/23/89

INSPECTION RECORD

Shoreline Treatment Process(es) Completed for this Segment



Hot water wash



Mechanical



Warm water wash

Non-mechanical SNARE ROOM

Water deluge



Other _____

Exxon

Treatment as indicated above has been completed. Request demobilization from this segment.

Comments

TREATMENT OF SEGMENT IN 24B
IS COMPLETE. READY FOR DEMOBILIZATION. DEPLOYMENT TO NEW

Signature

Charles TompkinsDate: 8/23/89 Time: _____

SEGMENT

Printed Name

CHARLES TOMPKINS

Existing Shoreline Condition As Visually Determined by USCG

Surface Oil

Percent Degree of Oiling

less than

1%

Heavy

20%

Medium

50%

Light

20%

Very Light

9%

None

100 %

Existing Shoreline Condition As Visually Determined by ADEC

Surface Oil

Percent Degree of Oiling

<1

Heavy

55

Medium

25

Light

14

Very Light

5

None

100 %

Subsurface Oil



Yes



No

COMMENT BELOW

Reassessment



Yes - necessary



No - not necessary unless re-oiled

Subsurface Oil



Yes



No

COMMENT BELOW

Reassessment



Yes - necessary



No - not necessary unless re-oiled

ADEC rep - Recommend demobilization. Former Corexit test

Comments Minimal heavy oiling. Some mobile mediumoiling. Most of medium oiling is tar on rocks.Signature Kate Doyle Siftar Date: 8/23/89 Time: 1225 HRSPrinted Name Kate Doyle SIFTAR

FOSC rep

Demobilization approved/disapprovedComments Some light mobile oil, further work on area not advisedSignature Paul B. Gausle Date: 8/23/89 Time: 1230Printed Name Paul B Gausle, LT

COPY: EXXON ADEC FOSC ISOC

TREATMENT NO. 111111

SEG IN 33 INSPECTION # 1DATE 7/31/89SEGMENT
INSPECTION RECORD

Shoreline Treatment Process(es) Completed for this Segment



Hot water wash



Mechanical



Warm water wash



Non-mechanical



Water deluge



Other

Exxon

Treatment as indicated above has been completed. Request demobilization from this segment.

Comments Treatment of segment IN-33 is complete and ready for demobilization to next segment.Signature Steve E. RamsowerDate: 7/31/89 Time: 1435Printed Name Steve E. Ramsower TF-2 Leader

Existing Shoreline Condition As Visually Determined by USCG

Surface Oil

Subsurface Oil

Percent Degree of Oiling



Yes



No

2%

Heavy

15%

Medium

25%

Light

20%

Very Light

34%

None

100 %

Comments Areas w/ some heavy concentrations - generally found along upper tide line. CORAL AREAS ALSO HAS SOME MEDIUM SURFACE. SEGMENT HIGH ENERGY SHORELINE.

Reassessment



Yes - necessary



No - not necessary unless re-oiled

ADEC rep Comments NOT PRESENT - NOT FIELD OF INSPECTION

Signature

Date: / / Time:

Printed Name

FOSC rep

Demobilization approved/disapprovedComments SOME OIL WILL BE FOUND FOR SHORT DUE TO QUANTITIES OF OILFILE THAT A REPORT REQUESTS FOR QUANTITY REMOVAL AT THIS TIMESignature James D. HannerDate: 7/31/89 Time: 1445

(version 4/28/89)

SHORELINE PRE-CLEANUP ASSESSMENT BLOCK REPORT

Location (see enclosed map): Northwest Bay of Eleanor Island

Includes Shoreline Segments: EL-52, EL-53, EL-54, EL-55, EL-56, EL-57,
EL-58

Submitted :

[Signature]
(for Exxon)

Date: May 5/89

FOSC Approval:

[Signature]

Date: 5/6/89

Distribution:

Exxon Shoreline Coordinator
Exxon Shoreline Supervisor
Exxon SCAT file

FOSC

NOAA
EPA
USDA (FS)
USFW
A.DEC
A.FG
A.DNR

PWSCA

Approved.
Monitor
[Signature]

Approved by Interagency Shoreline Cleanup Committee 5-4-89

Sam L. [Signature], CDR, NOAA

(version 4/26/89)

SHORELINE CLEANUP PROGRAM

DATE: April 26, 1989

SHORELINE SEGMENT EL-52

LOCATION: (see enclosed map) West arm of Northwest Bay, Eleanor Island

ADEC NO. 05 SHORELINE ASSESSMENT DATE: 4-22-89

Recommended Cleanup Activity(ies):

Warm/cold water washing and flooding
Warm water at moderate/high pressure
Low/high pressure washing

Priorities Considerations:

Herring spawning area.

Ecological Constraints (from site survey):

Fucus in local, dense patches on rocks at medium/low tide. Use low pressure if practical and minimize walking on, or dragging hoses over large boulders. Avoid streams across beach.

Archeological Constraints (from site survey):

Stay away from large wooden structural remains on the east side near the head of the cove. If heretofore undiscovered cultural material are uncovered during cleanup, contact Exxon archaeologist C. Mobley and take actions prescribed in the Operation Guidelines for Shoreline Cleanup dated 4/21/89 as amended.

Charles E. Adams
State Historic Preservation Officer *

Date: 4/26/89

EXXON: _____

Date: _____

FOSC: _____

Date: _____

* Signature required to satisfy stipulations in Alaska DNR land use permits for tide and submerged lands .

(version 4/28/89)

SHORELINE CLEANUP PROGRAM

DATE: April 28, 1989

SHORELINE SEGMENT EL-52

LOCATION: (see enclosed map) Northwest Bay - Eleanor Island

ADEC NO. 5 SHORELINE ASSESSMENT DATE: 4-22-89

Recommended Cleanup Activity(ies):

High volume flushing on the beach areas.
High pressure on unvegetated rocky areas.
Hot water on unvegetated rocky areas.

Priorities Considerations:

Ensure booms are in place to contain oil run-off as progress towards head of cove proceeds.

Ecological Constraints (from site survey):

Do not dislodge rockweed holdfasts or mussel clumps, unless dead.

Archeological Constraints (from site survey):

Keep people away from large wooden structural remains on the east side near the head of the cove. If heretofore undiscovered cultural materials are uncovered during cleanup, contact Exxon archaeologist C. Mobley and take actions prescribed in the Operational Guidelines for Shoreline Cleanup dated 4/21/89 as amended.

Judith S. Bittner
State Historic Preservation Officer *

Date: 5/1/89

EXXON: _____

Date: _____

FOSC: _____

Date: _____

* Signature required to satisfy stipulations in Alaska DNR land use permits for tide and submerged lands .

[revised 17 Apr 89]

SHORELINE OIL EVALUATION

Date: 4 / 22 / 89

Observer: C. DILLON

Time: 15 h 30 m

Weather: Sun/Cloud/Rain/Snow/Fog

LOCATION

LOCATION Eleanor Island (NW)

SITE WEST COVE HEAD

LOCATION PREFIX EL

SEGMENT NUMBER EL-52

LATITUDE: 6 ___ d ___ m ___ s

LONGITUDE: 147 d ___ m ___ s

LENGTH OF SHORELINE SEGMENT: 500 m

ACCESS: Foot/Vehicle/Boat/Barge/Helio/Float Plane

SHORELINE:

SHORELINE CHARACTER:

BEach/SPit/Cove/___ Cove (deep) with length of beach

Wave Exposure: High/Med/Low

Rock Y/N % 10 Vertical Low Lying 5'-10' High Angle/Low Angle

Sediment Y/N % 90 Types: 10% B / 60% C / 20% P / G / S / M / R

Strand Line Y/N Algae/Debris/Logs
Some

OIL

LOCATION OF OIL: SU / SP / H / M / L

CONTINUOUS: Y/N WIDTH OF BAND: 3-10 m % of Segment 100

PATCHY: 10/20/30/40/50/60/70/80/90% coverage % of Segment ___

EST. OIL THICKNESS: >.5 cm EST. OIL PENETRATION: >1 cm mostly only on surface of cobbles

POOLED OIL: Y/N "FREE" OIL: Y/N WEATHERED: Y/N

STRAND LINE CLEAN/OILED

only some within two rock outcroppings

SUMMARY OILING: Amount High/Med/Low
Coverage Extensive/Moderate/Light

COMMENTS: Light oiling on most of innermost cove area becoming moderate with larger size sediment/rocks along eastern stretch of segment.

Found dead sea urchin on beach ~~area~~ at extreme North end of segment. Put it in plastic bag + returned to Valdez.

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[revised 17 Apr 89]

SHORELINE OIL EVALUATION

Date: 04 / 22 / 89

Observer: [Signature]

Time: 730 h _____ m

Weather: Sun/Cloud/Rain/Snow/Fog

LOCATION

LOCATION San Jose

SITE [Signature]

LOCATION PREFIX EL

SEGMENT NUMBER 52

LATITUDE: 6 _____ d _____ m _____ s

LONGITUDE: 147 d _____ m _____ s

LENGTH OF SHORELINE SEGMENT: 400 m

ACCESS: Foot/Vehicle/Boat/Barge/Helio/Float Plane

SHORELINE:

SHORELINE CHARACTER:

Beach/SPit/Cove/ _____ / _____

Wave Exposure: High/Med/Low

Rock Y/N % 20 Vertical/High Angle/Low Angle

Sediment Y/N % 80 Types: B / C / P / G / S / M / R

Strand Line Y/N Algae/Debris/Logs

OIL

LOCATION OF OIL: SU / SP / H / M / L

CONTINUOUS: Y/N WIDTH OF BAND: 25-30 m % of Segment 100

PATCHY: 10/20/30/40/50/60/70/80/90% coverage % of Segment _____

EST. OIL THICKNESS: _____ cm EST. OIL PENETRATION: 2 cm SK

POOLED OIL: Y/N "FREE" OIL: Y/N WEATHERED: Y/N

STRAND LINE CLEAN/OILED

SUMMARY OILING: Amount High/Med/Low
Coverage Extensive/Moderate/Light

COMMENTS:

ECOLOGICAL EVALUATION

LOCATION NW Bay - Eleanor, SITE head of bay OBSERVER Rob. H. Hars

DATE 04 / 22 / 1989 TIME (HHMM) 1730 TIDE HT. (m) _____

OILED ZONE: SPLASH HIGH MED LOW

SUBSTRATUM: ROCKS BOULDER COBBLE GRAVEL SAND MUD

LIVE BIOTA / DENSITY (#/m² or %cover-algae):

Fucus dense in small patches on larger boulders Mytilus few, small Balanus patchy Littorina few, live

Nucella _____ Pagurus _____ Limpets few, live Halosaccion _____

Gelidium _____ Other _____

3 streams, 1 from sand, 2 from main stream?

Oil Damaged Biota All biota is intact, but a few specimens are OK, even after cleaning. Fucus in stream & streams to rd. clean. No obvious dead mollusks.

Clean-up Precautions Rel. lower pressure where Fucus is dense.

OILED ZONE: SPLASH HIGH MED LOW

SUBSTRATUM: ROCKS BOULDER COBBLE GRAVEL SAND MUD

LIVE BIOTA / DENSITY (#/m² or %cover-algae):

Fucus Dense Mytilus few, small Balanus on rock Littorina few

Nucella _____ Pagurus _____ Limpets few Halosaccion _____

Gelidium _____ Other 1st of 1st, 2nd of 2nd, 3rd of 3rd

also slow; Littorina close together OK

Oil Damaged Biota few left, but nets attached, but not for long.

Clean-up Precautions low pressure at NB and 1st

1st of 1st, 2nd of 2nd, 3rd of 3rd

MAMMALS (#): OTTERS 1 HARBOR _____ DALL _____ OTHER _____

OTHER _____

BIRDS: _____

GENERAL OBSERVATIONS: Two independent observations

ECOLOGICAL EVALUATION

LOCATION Eleanor Island SITE West Cove Head OBSERVER C. DILLON
 DATE 4 / 22 / 1989 TIME (HHMM) 1500-1730 TIDE HT. (m) 2-3

OILED ZONE: SPLASH HIGH MED LOW
 SUBSTRATUM: 10% ROCKS 10% BOULDER 70% COBBLE 10% GRAVEL SAND MUD

LIVE BIOTA / DENSITY (#/m² or %cover-algae):

Fucus 5% Mytilus 0 Balanus 0 Littorina 0
 Nucella 0 Pagurus 0 Limpets 0 Halosaccion 5%
 Gelidium 0 Other None on beach and oiled areas. Many dead Mytilus, Alveolata, SMR

Oil Damaged Biota Some Fucus on oiled bedrock outcrops at innermost cove and knob rock outcrop near North extent of segment.

Clean-up Precautions Just beyond (inland) of oil band is woods and beach grass which are healthy + clean. Stay clear of those areas. Some living ~~but not~~ Fucus on bedrock outcrops - don't use hot water or high pressure

OILED ZONE: SPLASH HIGH MED LOW
 SUBSTRATUM: ROCKS BOULDER COBBLE GRAVEL SAND MUD

LIVE BIOTA / DENSITY (#/m² or %cover-algae):

Fucus _____ Mytilus _____ Balanus _____ Littorina _____
 Nucella _____ Pagurus _____ Limpets _____ Halosaccion _____
 Gelidium _____ Other _____

Oil Damaged Biota _____

Clean-up Precautions _____

MAMMALS (#): OTTERS 1 (dead) HARBOR _____ DALL _____ OTHER _____

OTHER Dead sea otter collected from Beach area at extrem N. segment

BIRDS: None found dead or on land. Eagle + seagulls flying around cove.

GENERAL OBSERVATIONS: _____

(version of 4/17/89)

CULTURAL RESOURCE EVALUATION FOR OILED SHORELINE

Date 4/22/89 Location Elmer Island Site West Cove head
Location Prefix EL Segment # EL32 Length 500 m

Survey Method: Air _____ (A - indicate on map)

Ground ✓ (G - indicate on map)

Known cultural resources (AHRS #) None Data Source None

Oil conditions/beach visibility Continuous mostly light to moderate

Width of beach zone surveyed 2-6 m Tree fringe surveyed 10 m

Cultural resources observed in beach zone (AHRS code) CBN

Cultural resources observed in tree fringe (AHRS code) None

General observations justifying survey method and segment's site probability:

Shore Profile moderate beach slope

Fresh Water Sources at least six

Sea Exposure north but deep in the cove

Probability of undiscovered sites in beach zone (circle one) 1 2 3 4 5

Monitoring during cleanup needed yes no Collection yes no

Photos: Color Roll # CW-4 Frames 3,4

B/W Roll # _____ Frames _____

Observer(s) C. Wilson

Time survey started 1500 Time survey ended 1730

Cultural resource considerations/restraints:

If any heretofore undiscovered cultural resources are uncovered contact Exxon archaeologist, C Hobley, immediately

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SHORELINE CLEANUP PROGRAM

DATE: 04-22-89

Shoreline Segment: EH 52 - West Arm of New Bay

Shoreline Assessment Date: 04-22-89

Recommended Cleanup Activity(ies):

1. Cleanup on beach at head of West Arm began ~1300; we arrived ~1700.
2. Use vigorous mod-high pressure + high volume washing to remove oil from sediment (to reduce potential longterm release of hydrocarbons in mod. productive, but low energy environment).

Priorities Considerations

Ecological Constraints (from site survey)

Fucus in local, dense patches on rocks at M-L tide. Use low pressure if practical and minimize walking on or dragging hoses over large boulders.
Avoid streams across beach

Archeological Constraints (from site survey)

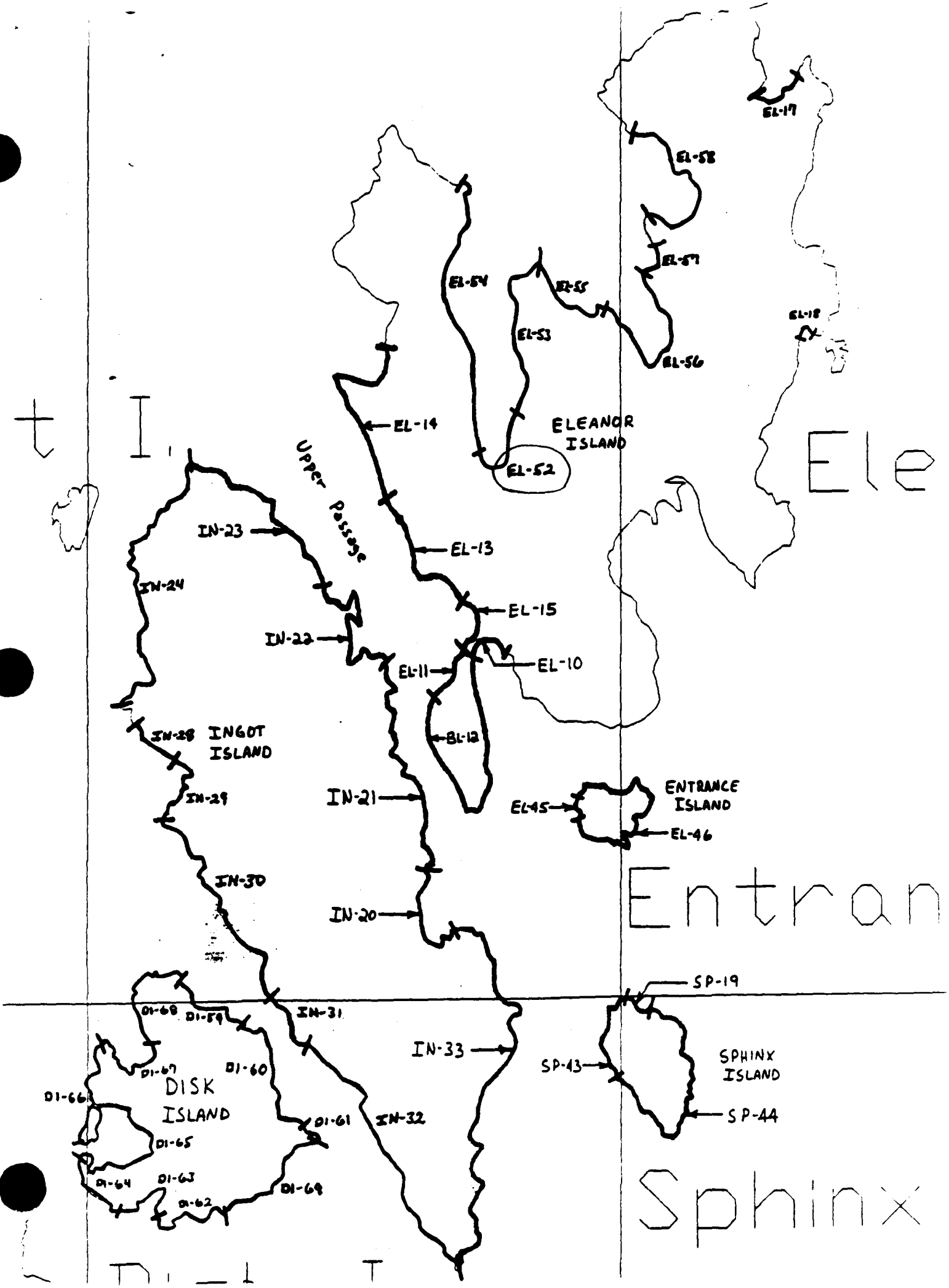
EXXON: _____

Date: _____

USC: _____

Date: _____

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(version 4/26/89)

SHORELINE CLEANUP PROGRAM

DATE: April 26, 1989

SHORELINE SEGMENT EL-53

LOCATION: (see enclosed map) East bank of west cove, Northwest
Bay, Eleanor Island.

ADEC NO. N/A SHORELINE ASSESSMENT DATE: 4-23-89

Recommended Cleanup Activity(ies):

High pressure, warm water flushing on rocks of upper I.T.Z.
Low pressure, high volume warm water on middle I.T.Z. where
there is fine grained sediment and dense fucus.
Increase pressure as necessary for efficient cleaning.

Priorities Considerations:

Herring spawning area.

Ecological Constraints (from site survey):

Avoid streams outfalls. Lower I.T.Z. is clean and healthy. To
avoid spreading oil to that portion of shoreline, cleaning
should be done at high and medium tide rather than at low
tide. Use low pressure as practical on dense fucus area.

Archeological Constraints (from site survey):

If heretofore undiscovered cultural material are
uncovered during cleanup, contact Exxon archaeologist C.
Mobley and take actions prescribed in the Operational
Guidelines for Shoreline Cleanup dated 4/21/89 as amended.

William E. Hume
State Historic Preservation Officer *

Date: 4/26/89

EXXON: _____

Date: _____

FOSC: _____

Date: _____

* Signature required to satisfy stipulations in Alaska DNR
land use permits for tide and submerged lands .

(version 4/28/89)

SHORELINE CLEANUP PROGRAM

DATE: April 28, 1989

SHORELINE SEGMENT EL-53

LOCATION: (see enclosed map) Northwest Bay - Eleanor Island

ADEC NO. _____ SHORELINE ASSESSMENT DATE: 4-23-89

Recommended Cleanup Activity(ies):

High pressure, warm water flushing on rocks of upper ITZ.
Low pressure, high volume, warm water on middle ITZ. Where there is fine grained sediment and dense fucus.
Increase pressure as necessary for efficient cleaning.

Priorities Considerations:

Lower ITZ is clean and healthy. To avoid spreading oil to that portion of shoreline, cleaning should be done at high and medium tide rather than at low tide.

Ecological Constraints (from site survey):

Low pressure as practical on dense fucus areas.
Avoid streams.

Archeological Constraints (from site survey):

If heretofore undiscovered cultural materials are uncovered during cleanup, contact Exxon archaeologist C. Mobley and take actions prescribed in the Operational Guidelines for Shoreline Cleanup dated 4/21/89 as amended.

Judith S. Butcher
State Historic Preservation Officer *

Date: 5/1/89

EXXON: _____

Date: _____

FOSC: _____

Date: _____

* Signature required to satisfy stipulations in Alaska DNR land use permits for tide and submerged lands .

[revised 17 Apr 89]

SHORELINE OIL EVALUATION

Date: 4 / 23 / 89

Observer: C. DILLON

Time: 10 ⁰⁹ h 45 ³⁰ m

Weather: Sun/Cloud/Rain/Snow/Fog

LOCATION

LOCATION Eleanor Island (NW)

SITE West Cove - East Bank

LOCATION PREFIX EL

SEGMENT NUMBER EL-53

LATITUDE: 6 d m s

LONGITUDE: 147 d m s

LENGTH OF SHORELINE SEGMENT: 400 m

ACCESS: Foot/Vehicle/Boat/Barge/HELIO/Float Plane

SHORELINE:

SHORELINE CHARACTER:

BEach/SPit/Cove / / Deep Cove with Beach stretches which are only accessible at low tide.

Wave Exposure: High/Med/Low

Rock (Y/N) % 10 Vertical High Angle / Low Angle

SEdiment (Y/N) % 90 Types: B / C / P / G / S / M / R (See Comments)

Strand Line (Y/N) Algae/Debris/Logs

OIL

LOCATION OF OIL: SU / SP / H / M / L

CONTINUOUS: (Y/N) WIDTH OF BAND: 5-15 m % of Segment 90

PATCHY: 10/20/30/40/50/60/70/80/90% coverage % of Segment

EST. OIL THICKNESS: >.5 cm EST. OIL PENETRATION: 10 cm on Upper ITZ

POOLED OIL: (Y/N) "FREE" OIL: (Y/N) WEATHERED: (Y/N)

STRAND LINE CLEAN/OILED N/A

SUMMARY OILING: Amount High/Med / Low
Coverage Extensive / Moderate / Light

COMMENTS: Sediment is variable in size - refer to diagram for detail.
Lower 1/3 of ITZ is clean. One section of the segment is a stream outfall which is also clean.

ECOLOGICAL EVALUATION

LOCATION NW Bay - Eleanor Is SITE 53 OBSERVER Rob

DATE 24 / 23 / 1989 TIME (HHMM) 1230 TIDE HT. (m) 2.5m

OILED ZONE: SPLASH HIGH MED LOW

SUBSTRATUM: ROCKS BOULDER COBBLE GRAVEL SAND MUD

LIVE BIOTA / DENSITY (#/m² or %cover-algae):

Dense patches on
Fucus rocks Mytilus low Balanus patches, red Littorina few under
Nucella none Pagurus none Limpets few under Halosaccion none

Gelidium _____ Other _____
Starfish (Asterias) - 1 seen on rocks - 1 seen on shore
Respon. and other. La. 1 seen on shore

Oil Damaged Biota Fucus in patches at low tide - 1 seen on shore
through algal. Community to be studied. 1 seen on shore

Clean-up Precautions production. Few seen on shore
no pressure as practical on dense Fucus near shore
stream.

OILED ZONE: SPLASH HIGH MED LOW

SUBSTRATUM: ROCKS BOULDER COBBLE GRAVEL SAND MUD

LIVE BIOTA / DENSITY (#/m² or %cover-algae):

Fucus _____ Mytilus _____ Balanus _____ Littorina _____
Nucella _____ Pagurus _____ Limpets _____ Halosaccion _____
Gelidium _____ Other _____

Oil Damaged Biota _____

Clean-up Precautions _____

MAMMALS (#): OTTERS _____ HARBOR _____ DALL _____ OTHER _____

OTHER _____

BIRDS: _____

GENERAL OBSERVATIONS: _____

(version of 4/17/89)

CULTURAL RESOURCE EVALUATION FOR OILED SHORELINE

Site 4/23/89 Location Elinor Bay Site West Cove East Beach
Location Prefix EL Segment # EL53 Length 350 m

Survey Method: Air _____ (A - indicate on map)

Ground X (G - indicate on map)

Known cultural resources (AHRS #) None Data Source None

Oil conditions/beach visibility moderate, fair when not oiled

Width of beach zone surveyed 0-5 m Tree fringe surveyed 10m

Cultural resources observed in beach zone (AHRS code) None

Cultural resources observed in tree fringe (AHRS code) None

General observations justifying survey method and segment's site probability:

Shore Profile four large small beaches with rocky shore between at high tide none shore between beaches in steep cliff

Fresh Water Sources stream

Sea Exposure sheltered on east side of narrow cove

Probability of undiscovered sites in beach zone (circle one) 1 2 3 4 5

Monitoring during cleanup needed yes/no no Collection yes/no no

Photos: Color Roll # CW4 Frames 7

B/W Roll # _____ Frames _____

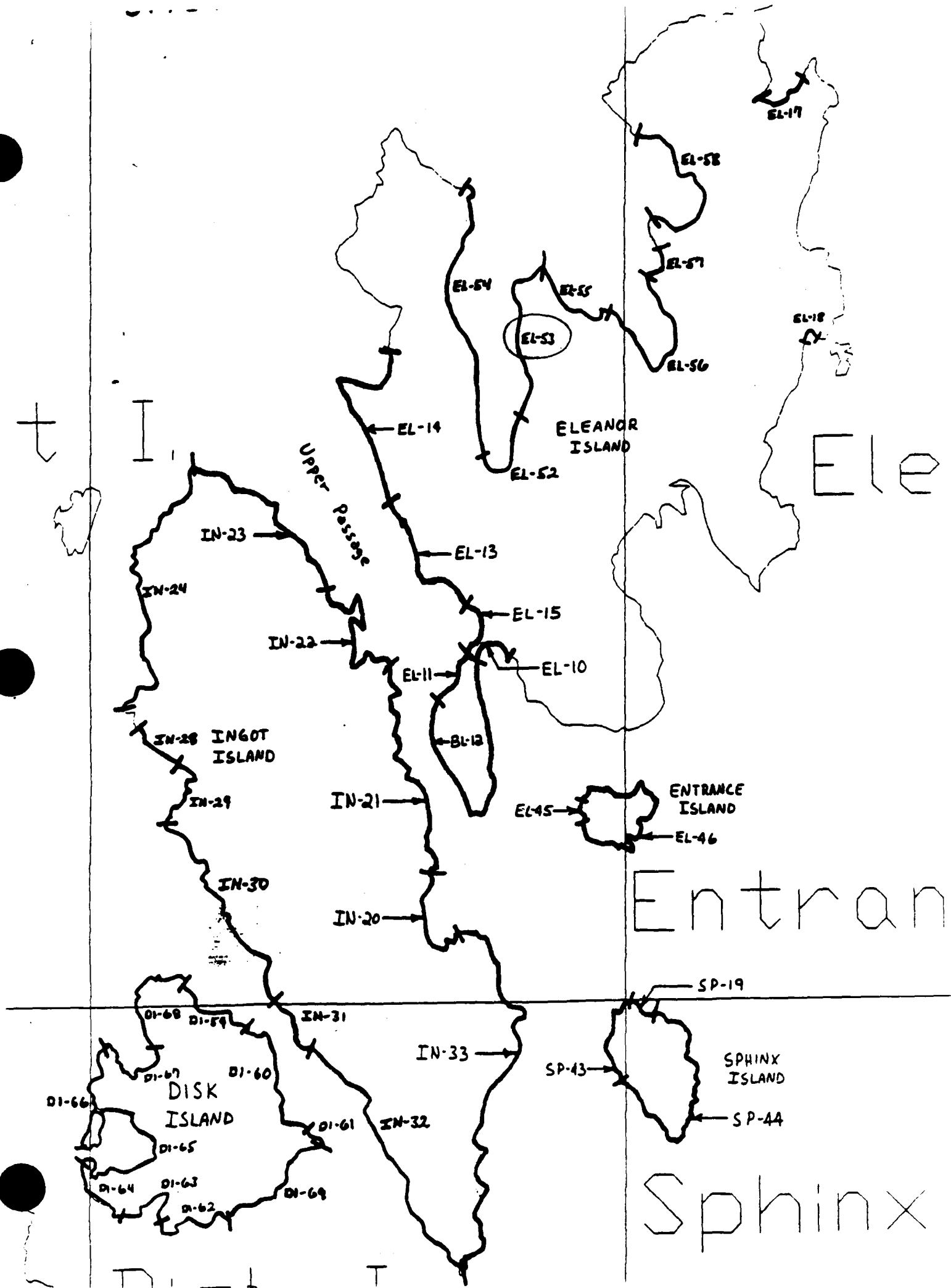
Observer(s) C. Mahely

Time survey started 0745 Time survey ended 0900

Cultural resource considerations/restraints:

If heretofore undiscovered cultural resources are identified during cleanup notify Exxon immediately.
C. Mahely, immediately

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(version 4/26/89)

SHORELINE CLEANUP PROGRAM

DATE: April 26, 1989

SHORELINE SEGMENT EL-54

LOCATION: (see enclosed map) West shore of west arm of Northwest Bay, Eleanor Island.

ADEC NO. 29 SHORELINE ASSESSMENT DATE: 4-23-89

Recommended Cleanup Activity(ies):

Warm/cold water washing and flooding
Warm water at moderate/high pressure
Low/high pressure washing

Priorities Considerations:
Herring spawning area.

Ecological Constraints (from site survey):
Use low pressure as practical on dense fucus areas.

Archeological Constraints (from site survey):
For the beach inside the point at the northern end of the segment; no access to the upland in the upper 1/5 of segment. No fires. No equipment on the upper beach. Site should be monitored during cleanup. If heretofore undiscovered cultural material are uncovered during cleanup, contact Exxon archaeologist C. Mobley and take actions prescribed in the Operational Guidelines for Shoreline Cleanup dated 4/21/89 as amended.

Charles E. Himes
State Historic Preservation Officer *

Date: 4/26/89

EXXON: _____

Date: _____

FOSC: _____

Date: _____

* Signature required to satisfy stipulations in Alaska DNR land use permits for tide and submerged lands .

(version 4/28/89)

SHORELINE CLEANUP PROGRAM

DATE: April 28, 1989

SHORELINE SEGMENT EL-54

LOCATION: (see enclosed map) West side of west arm of Northwest
Bay on Eleanor Island.

ADEC NO. _____ SHORELINE ASSESSMENT DATE: 4-23-89

Recommended Cleanup Activity(ies):

Primary cleanup at three pocket beaches on north end of segment.
Rest of vertical rocky face should be cleaned only if large amounts
of oil are visible at low tide.

High pressure washing on rocks may be used.

Low pressure washing on gravel/pebble beaches.

(See archeological constraints for recommendations for beach inside
the point in the northern 1/5 of segment)

Priorities Considerations:

Ecological Constraints (from site survey):

Use minimum effective pressure for washing in large dense algae
(fucus)

Archeological Constraints (from site survey):

For the beach inside the point at the northern 1/5 of the segment:
no access to the uplands, no fires on beach or uplands; segment to
be monitored during cleanup; cleaning methods to minimize sediment
disturbance and movement of surface gravels (no high volume/high
pressure techniques). Consultation with on-site archaeological
monitor during cleanup recommended. If heretofore undiscovered
cultural materials are uncovered during cleanup, contact Exxon
archaeologist C. Mobley and take actions prescribed in the
Operational Guidelines for Shoreline Cleanup dated 4/21/89 as
amended.

Judith E. Bittner
State Historic Preservation Officer *

Date: 5/1/89

EXXON: _____

Date: _____

FOSC: _____

Date: _____

* Signature required to satisfy stipulations in Alaska DNR
land use permits for tide and submerged lands .

[revised 17 Apr 89]

SHORELINE OIL EVALUATION

Date: 04 / 23 / 89

Observer: Samuel / [unclear]

Time: 1310 - h 1415 m

Weather: Sun/Cloud/Rain/Snow/Fog

LOCATION

LOCATION Fleener Is.

SITE West Beach

LOCATION PREFIX EL

SEGMENT NUMBER 54

LATITUDE: 6 d m s

LONGITUDE: 147 d m s

LENGTH OF SHORELINE SEGMENT: 2400 m (655)

ACCESS: Foot/Vehicle/BOat/BARGE/HELIO/Float Plane

SHORELINE:

SHORELINE CHARACTER:

BEACH/SPit/Cove/

Wave Exposure: High/Med/Low

Rock Y/N % 75 VERTICAL/High Angle/Low Angle

SEdiment Y/N % 5 Types: B / C / P / G / S / M / R

Strand Line Y/N Algae/Debris/Logs

OIL

LOCATION OF OIL: SU / SP H / M / L on rock / beach

CONTINUOUS: Y/N WIDTH OF BAND: 5-25 m % of Segment 100

PATCHY: 10/20/30/40/50/60/70/80/90% coverage % of Segment

EST. OIL THICKNESS: < cm EST. OIL PENETRATION: < cm

POOLED OIL: Y/N "FREE" OIL: Y/N WEATHERED: Y/N

STRAND LINE CLEAN/OILED

SUMMARY OILING: Amount High/Med/Low
Coverage Extensive/Moderate/Light

COMMENTS:

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Clarity as Heavily oiled
Due to aggregate amount of
oil on beach -
[signature]

Clarity
on
lightly oiled
due to aggregate
amount of oil on
beach
[signature]

DOCUMENTATION:

MAP/Aerial photo marking segment boundaries attached E1 54

VTR: Y/N Tape Number(s)

PHOTOGRAPHY: Y/N Roll Number(s)

SAMPLE NUMBERS COLLECTED:

Red high and conc. in pocket located on the
far northern part of segment (a 200-300 m
from the 4 - STORM on top). Sand dune
located near pocket located at North East
side of point; sand dune is 30-40 m long
and 2-3 m high (sloped). No mouse in a sand dune
or in pocket high tide. No mouse in sand dune.

Beach on north west side of point opposite to
shore is pebbles/cobbles/gravel a 100 m wide 20-30
cm to 1 m high. No mouse. No mouse. No mouse.
No mouse. No mouse. No mouse. No mouse.
No mouse. No mouse. No mouse. No mouse.

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ECOLOGICAL EVALUATION

LOCATION Eleanor Is SITE EL 54 OBSERVER Rob. [unclear]
 DATE 24/23/1989 TIME (HHMM) 1400 TIDE HT. (m) 2.2

OILED ZONE: SPLASH HIGH MED LOW

SUBSTRATUM: ROCKS BOULDER COBBLE GRAVEL SAND MUD

LIVE BIOTA / DENSITY (#/m² or %cover-algae):

Fucus [unclear] Mytilus [unclear] Balanus [unclear] Littorina [unclear]

Nucella [unclear] Pagurus [unclear] Limpets [unclear] Halosaccion [unclear]

Gelidium [unclear] Other [unclear]

Oil Damaged Biota [unclear]

Clean-up Precautions [unclear]

OILED ZONE: SPLASH HIGH MED LOW

SUBSTRATUM: ROCKS BOULDER COBBLE GRAVEL SAND MUD

LIVE BIOTA / DENSITY (#/m² or %cover-algae):

Fucus [unclear] Mytilus [unclear] Balanus [unclear] Littorina [unclear]

Nucella [unclear] Pagurus [unclear] Limpets [unclear] Halosaccion [unclear]

Gelidium [unclear] Other [unclear]

Oil Damaged Biota [unclear]

Clean-up Precautions [unclear]

MAMMALS (#): OTTERS [unclear] HARBOR [unclear] DALL [unclear] OTHER [unclear]

OTHER [unclear]

BIRDS: [unclear]

GENERAL OBSERVATIONS: [unclear]

(version of 4/17/89)

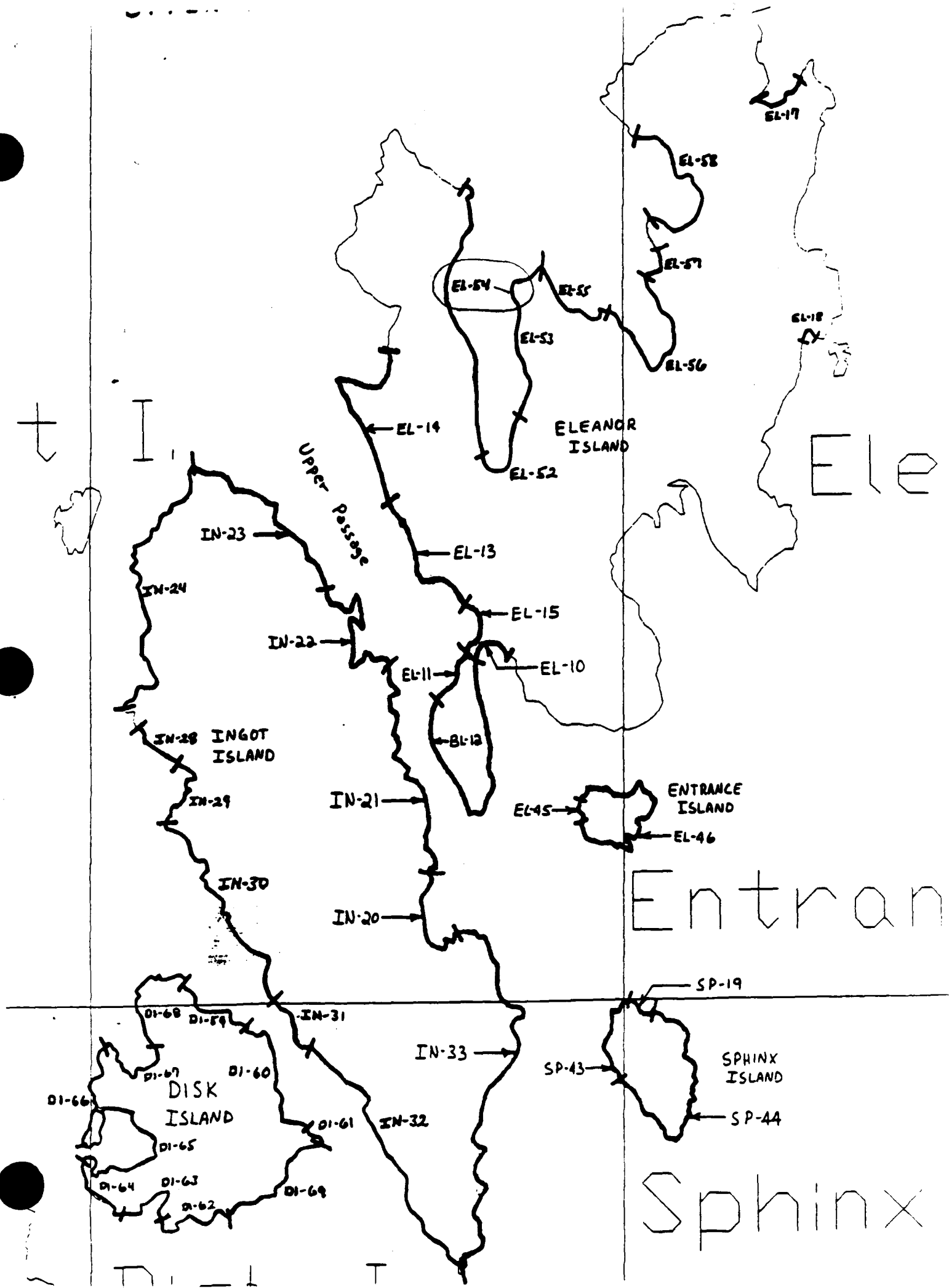
CULTURAL RESOURCE EVALUATION FOR OILED SHORELINE

Date 4-23-89 Location ELEANOR Island Site West shore of WEST Arm OF NORTHWEST Bay
Location Prefix FL Segment # 54 Length _____ m
Survey Method: Air _____ (A - indicate on map)
Ground ✓ (G - indicate on map) BOAT ✓ (B)
Known cultural resources (AHRS #) NONE Data Source _____
Oil conditions/beach visibility moderate
Width of beach zone surveyed 10 m Tree fringe surveyed up to 25m
Cultural resources observed in beach zone (AHRS code) PCR
Cultural resources observed in tree fringe (AHRS code) PCR, AN, CMT
General observations justifying survey method and segment's site probability:
Shore Profile mostly vertical cliffs with no beach. The one beach at the north end of the segment is gently sloping. Uplands above the beach are flat
Fresh Water Sources small streams

Sea Exposure Protected within Northwest Bay
Probability of undiscovered sites in beach zone (circle one) 1 2 3 4 (5)
Monitoring during cleanup needed yes/no Collection yes/no
Photos: Color Roll # CW 4 Frames 8-13
B/W Roll # _____ Frames _____
Observer(s) Mike YARBOROUGH
Time survey started 1:10 pm Time survey ended 2:30

Cultural resource considerations/restraints: For the beach inside the point at the northern end of the segment: NO ACCESS to the uplands. NO FIRES. NO EQUIPMENT ON THE UPPER BEACH. Site should be monitored during cleanup. IF heretofore undiscovered material is uncovered during cleanup, contact Archeologist C. Mobley immediately. For the remainder of the segment: IF heretofore undiscovered cultural material is uncovered during cleanup, contact Archeologist C. Mobley immediately.

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(version 4/26/89)

SHORELINE CLEANUP PROGRAM

DATE: April 26, 1989

SHORELINE SEGMENT EL-55

LOCATION: (see enclosed map) Cabin Point, Northwest Bay, Eleanor Island.

ADEC NO. N/A SHORELINE ASSESSMENT DATE: 4-23-89

Recommended Cleanup Activity(ies):

Warm/cold water washing and flooding.

Warm water at moderate/high pressure.

Low/high pressure washing.

Priorities Considerations:

Herring spawning area.

Ecological Constraints (from site survey):

Use low pressure as practical on dense fucus areas.

Archeological Constraints (from site survey):

No access to the upland area. If heretofore undiscovered cultural material are uncovered during cleanup, contact Exxon archaeologist C. Mobley and take actions prescribed in the Operational Guidelines for Shoreline Cleanup dated 4/21/89 as amended.

Charles E. Holmes
State Historic Preservation Officer *

Date: 4/26/89

EXXON: _____

Date: _____

FOSC: _____

Date: _____

* Signature required to satisfy stipulations in Alaska DNR land use permits for tide and submerged lands .

(version 4/28/89)

SHORELINE CLEANUP PROGRAM

DATE: April 28, 1989

SHORELINE SEGMENT EL-55

LOCATION: (see enclosed map) Northwest Bay - Eleanor Island

ADEC NO. 4 SHORELINE ASSESSMENT DATE: 4-23-89

Recommended Cleanup Activity(ies):

Use flooding and washing with moderate/high pressure and warm water if necessary to remove oil from sandy beach and adjacent rock reefs.

Use all appropriate techniques to remove oil from pocket beaches around "Cabin Pt." (see map), as well as adjacent rocks.

Vertical rocky shore not heavily oiled with free oil; not a priority.

Priorities Considerations:

Ecological Constraints (from site survey):

Use minimum effective pressure for washing in large, dense algae (fucus) patches.

Archeological Constraints (from site survey):

No access to the upland area. If heretofore undiscovered cultural materials are uncovered during cleanup, contact Exxon archaeologist C. Mobley and take actions prescribed in the Operational Guidelines for Shoreline Cleanup dated 4/21/89 as amended.

Judith E. Batten
State Historic Preservation Officer *

Date: 4/29/89

EXXON: _____

Date: _____

FOSC: _____

Date: _____

* Signature required to satisfy stipulations in Alaska DNR land use permits for tide and submerged lands .

[revised 17 Apr 89]

SHORELINE OIL EVALUATION

Date: 04 / 23 / 89

Observer: Robert [unclear]

Time: 1500 h _____ m

Weather: Sun/Cloud/Rain/Snow/Fog

LOCATION

LOCATION Elephant

SITE Cabin 74

LOCATION PREFIX EL

SEGMENT NUMBER 55

LATITUDE: 6 _____ d _____ m _____ s

LONGITUDE: 147 d _____ m _____ s

LENGTH OF SHORELINE SEGMENT: 900 m

ACCESS: Foot/Vehicle/Boat/Barge/HELIO/Float Plane

SHORELINE:

SHORELINE CHARACTER:

Beach/SPit/Cove/ _____

Wave Exposure: High/Med/Low

Rock Y/N % 80 Vertical/High Angle/Low Angle

SEdiment Y/N % 20 Types: B / C / P / G / S / M / R

Strand Line Y/N Algae/Debris/Logs

*small patches
in pocket beaches*

OIL

LOCATION OF OIL: SU / SP / H / M / L

CONTINUOUS: Y/N WIDTH OF BAND: 5-25 m *in beach* % of Segment _____

PATCHY: 10/20/30/40/50/60/70/80/90% coverage % of Segment _____

EST. OIL THICKNESS: 1 cm EST. OIL PENETRATION: _____ cm

POOLED OIL: Y/N "FREE" OIL: Y/N WEATHERED: Y/N

STRAND LINE CLEAN/OILED

*oil out
on rock faces*

SUMMARY OILING: Amount High/Med/Low
Coverage Extensive/Moderate/Light

COMMENTS:

DOCUMENTATION:

MAP/Aerial photo marking segment boundaries

VTR: Y/N Tape Number(s) _____

PHOTOGRAPHY: Y/N Roll Number(s) _____

SAMPLE NUMBERS COLLECTED: _____

- [illegible]

ECOLOGICAL EVALUATION

LOCATION Cabin Pt. NW 3/4 Sec 7, T1N, R1E SITE EL 55 OBSERVER

DATE 04 / 23 / 1989 TIME (HHMM) 1600 TIDE HT. (m) 0.5

OILED ZONE: SPLASH HIGH MED LOW

SUBSTRATUM: ROCKS BOULDER COBBLE GRAVEL SAND MUD

LIVE BIOTA / DENSITY (#/m² or %cover-algae):

Fucus Phaeodactyloides Mytilus few Balanus patchy Littorina few

Nucella Pagurus Limpets Halosaccion

Gelidium Other high tide species

Oil Damaged Biota

Clean-up Precautions Use minimum pressure needed to remove oil, if high-med pressure needed to remove oil do so.

OILED ZONE: SPLASH HIGH MED LOW

SUBSTRATUM: ROCKS BOULDER COBBLE GRAVEL SAND MUD

LIVE BIOTA / DENSITY (#/m² or %cover-algae):

Fucus Mytilus Balanus Littorina

Nucella Pagurus Limpets Halosaccion

Gelidium Other

Oil Damaged Biota

Clean-up Precautions

MAMMALS (#): OTTERS 1 HARBOR DALL OTHER

OTHER

BIRDS: seagulls

GENERAL OBSERVATIONS:

(version of 4/17/89)

CULTURAL RESOURCE EVALUATION FOR OILED SHORELINE

Date 4-23-89 Location ELEANOR ISLAND Site CASIN Point

Location Prefix EL Segment # 55 Length _____ m

Survey Method: Air _____ (A - indicate on map)

Ground ✓ (G - indicate on map) Boat ✓ (13)

Known cultural resources (AHRS #) NONE Data Source _____

Oil conditions/beach visibility medium to high on the beaches

Width of beach zone surveyed 5m m Tree fringe surveyed 10-50m

Cultural resources observed in beach zone (AHRS code) NONE

Cultural resources observed in tree fringe (AHRS code) CMT, CAN

General observations justifying survey method and segment's site probability:

Shore Profile Rocky CLIFFS, EXCEPT FOR THE BEACH AT THE SOUTHEASTERN
END OF THE SEGMENT.

Fresh Water Sources _____

Beach Exposure Beach AT SOUTHEASTERN END OF SEGMENT IS FAIRLY WELL PROTECTED

Probability of undiscovered sites in beach zone (circle one) 1 2 3 (4) 5

Monitoring during cleanup needed yes/no Collection yes/no

Photos: Color Roll # 6W 4 Frames 16-18

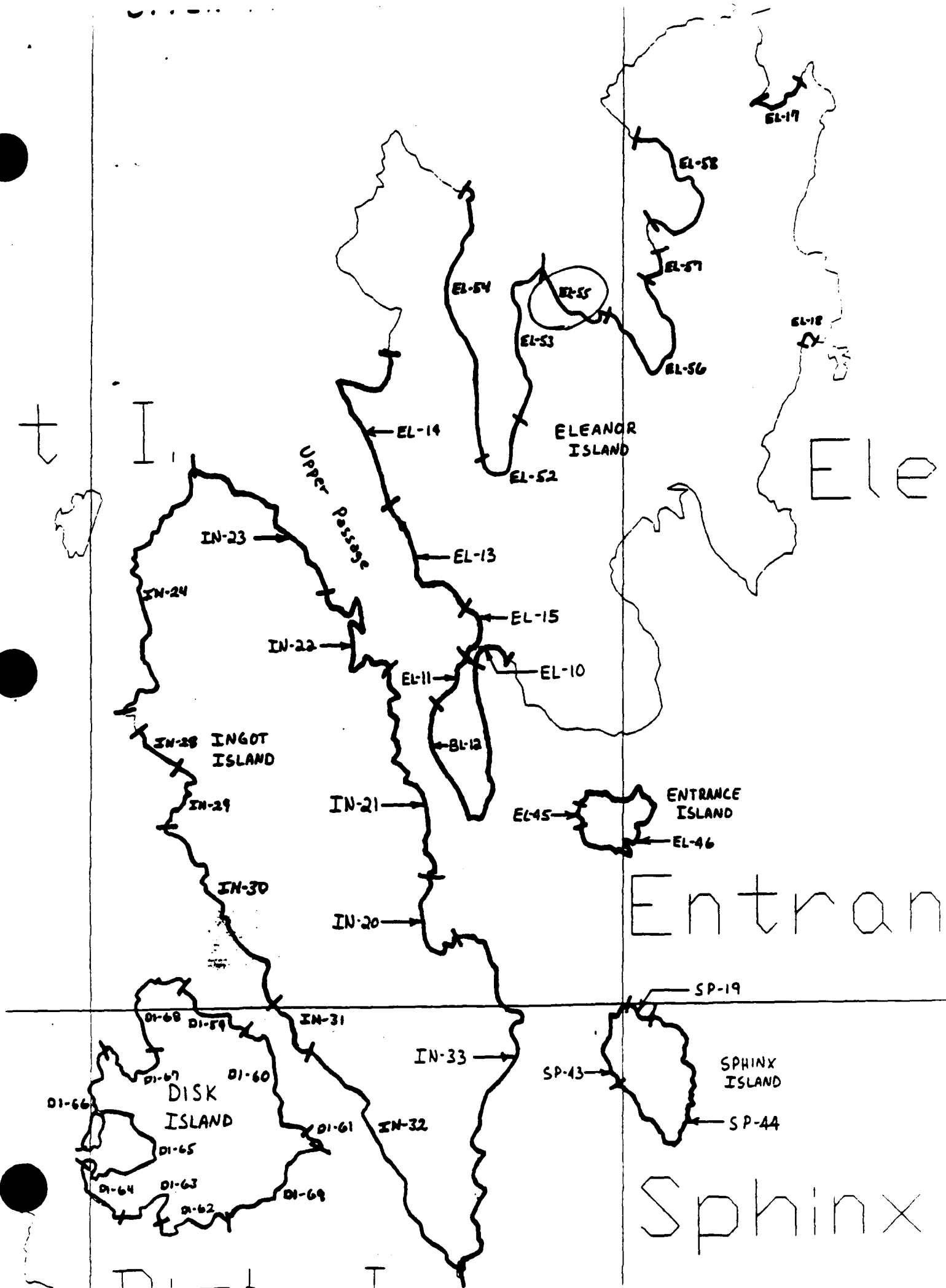
B/W Roll # _____ Frames _____

Observer(s) MIKE YARBOROUGH CURT WILSON

Time survey started 2:37 Time survey ended 4:10

Cultural resource considerations/restraints:

NO ACCESS TO THE UPLAND AREA. IF HERETOFORE UNDISCOVERED
CULTURAL REMAINS ARE UNCOVERED DURING CLEANUP, CONTACT
EXXON ARCHEOLOGIST & MURLEY IMMEDIATELY.



(version 4/26/89)

SHORELINE CLEANUP PROGRAM

DATE: April 26, 1989

SHORELINE SEGMENT EL-56

LOCATION: (see enclosed map) East arm of Northwest Bay, Eleanor
Island

ADEC NO. 04 SHORELINE ASSESSMENT DATE: 4-23-89

Recommended Cleanup Activity(ies):

Warm/cold water washing and flooding.
Warm water at moderate/high pressure.
Low/high pressure washing.

Priorities Considerations:

Herring spawning area .

Ecological Constraints (from site survey):

Use low pressure as practical where large patches of fucus are present.

Archeological Constraints (from site survey):

No access to uplands. If heretofore undiscovered cultural material are uncovered during cleanup, contact Exxon archaeologist C. Mobley and take actions prescribed in the Operational Guidelines for Shoreline Cleanup dated 4/21/89 as amended .

Charles E. Holmes
State Historic Preservation Officer *

Date: 4/26/89

EXXON: _____

Date: _____

FOSC: _____

Date: _____

* Signature required to satisfy stipulations in Alaska DNR land use permits for tide and submerged lands .

(version 4/28/89)

SHORELINE CLEANUP PROGRAM

DATE: April 28, 1989

SHORELINE SEGMENT EL-56

LOCATION: (see enclosed map) East arm of Northwest Bay -Eleanor Island

ADEC NO. _____ SHORELINE ASSESSMENT DATE: 4-23-89

Recommended Cleanup Activity(ies):

Clean beach at cove on south end of east arm with any means necessary.

Clean rocky shoreline from cove north along the eastern shoreline (700m) where oil is thick on rocks, or collecting in pools in high intertidal.

High pressure/warm water washing on rocky areas.

Washing/flooding or low pressure washing on beaches.

Priorities Considerations:

Ecological Constraints (from site survey):

No ecological constraints except use as low pressure as practical where large, dense patches of algae (Fucus) are present.

Archeological Constraints (from site survey):

No access to the uplands. If heretofore undiscovered cultural materials are uncovered during cleanup, contact Exxon archaeologist C. Mobley and take actions prescribed in the Operational Guidelines for Shoreline Cleanup dated 4/21/89 as amended.

Judith E. Bittner
State Historic Preservation Officer *

Date: 4/29/89

EXXON: _____

Date: _____

FOSC: _____

Date: _____

* Signature required to satisfy stipulations in Alaska DNR land use permits for tide and submerged lands .

[revised 17 Apr 89]

SHORELINE OIL EVALUATION

Date: 04 / 23 / 89

Observer: Reb. Hall

Time: 1700 - 1800 m

Weather: Sun/Cloud/Rain/Snow/Fog

LOCATION

LOCATION FL 1

SITE East Arm of New Bay

LOCATION PREFIX EL

SEGMENT NUMBER 56

LATITUDE: 6 d m s

LONGITUDE: 147 d m s

LENGTH OF SHORELINE SEGMENT: 1500 m

ACCESS: Foot/Vehicle/Boat/Barge/HELIO/Float Plane

SHORELINE:

SHORELINE CHARACTER:

BEACH/SPit/Cove/ /

Wave Exposure: High/Med/Low

Rock Y/N % 80 Vertical/High Angle/Low Angle

SEDiment Y/N % 20 Types: B / C / P / G S / M / R

Strand Line Y/N Algae/Debris/Logs few logs in bays
small and

OIL

LOCATION OF OIL: SU / SP / H / M / L

CONTINUOUS: Y/N WIDTH OF BAND: 12-30 m % of Segment 100

PATCHY: 10/20/30/40/50/60/70/80/90% coverage % of Segment

EST. OIL THICKNESS: 1-3 cm EST. OIL PENETRATION: up to 30 cm in penetration

POOLED OIL: Y/N "FREE" OIL: Y/N WEATHERED: Y/N

STRAND LINE CLEAN/OILED

SUMMARY OILING: Amount High/Med/Low
Coverage Extensive/Moderate/Light

COMMENTS:

Nearly the whole segment from beach at extreme south end along
east side is heavily oiled at mid to high tide & should be
cleaned.

ECOLOGICAL EVALUATION

LOCATION Blanton Is.

SITE East Arm of NW Bay of Blanton Island

OBSERVER Robillard

DATE 04 / 23 / 1989

TIME (HHMM) 1700-1800

TIDE HT. (m) ~ 3 (ebbing)

OILED ZONE: SPLASH HIGH MED LOW

SUBSTRATUM: ROCKS BOULDER COBBLE GRAVEL SAND MUD

LIVE BIOTA / DENSITY (#/m² or %cover-algae):

Fucus _____ Mytilus _____ Balanus _____ Littorina _____

Nucella _____ Pagurus _____ Limpets _____ Halosaccion _____

Gelidium _____ Other Fucus on rocks on headlands; essentially no critters alive on heavily oiled boulders. However, cannot see

Oil Damaged Biota very far into water, large amount of Fucus in

Clean-up Precautions patches below water level.

OILED ZONE: SPLASH HIGH MED LOW

SUBSTRATUM: ROCKS BOULDER COBBLE GRAVEL SAND MUD

LIVE BIOTA / DENSITY (#/m² or %cover-algae):

Fucus _____ Mytilus _____ Balanus _____ Littorina _____

Nucella _____ Pagurus _____ Limpets _____ Halosaccion _____

Gelidium _____ Other _____

Oil Damaged Biota _____

Clean-up Precautions _____

MAMMALS (#): OTTERS _____ HARBOR _____ DALL _____ OTHER _____

OTHER _____

BIRDS: None

GENERAL OBSERVATIONS: few herring jumping in the South end of the arm. No large schools seen.

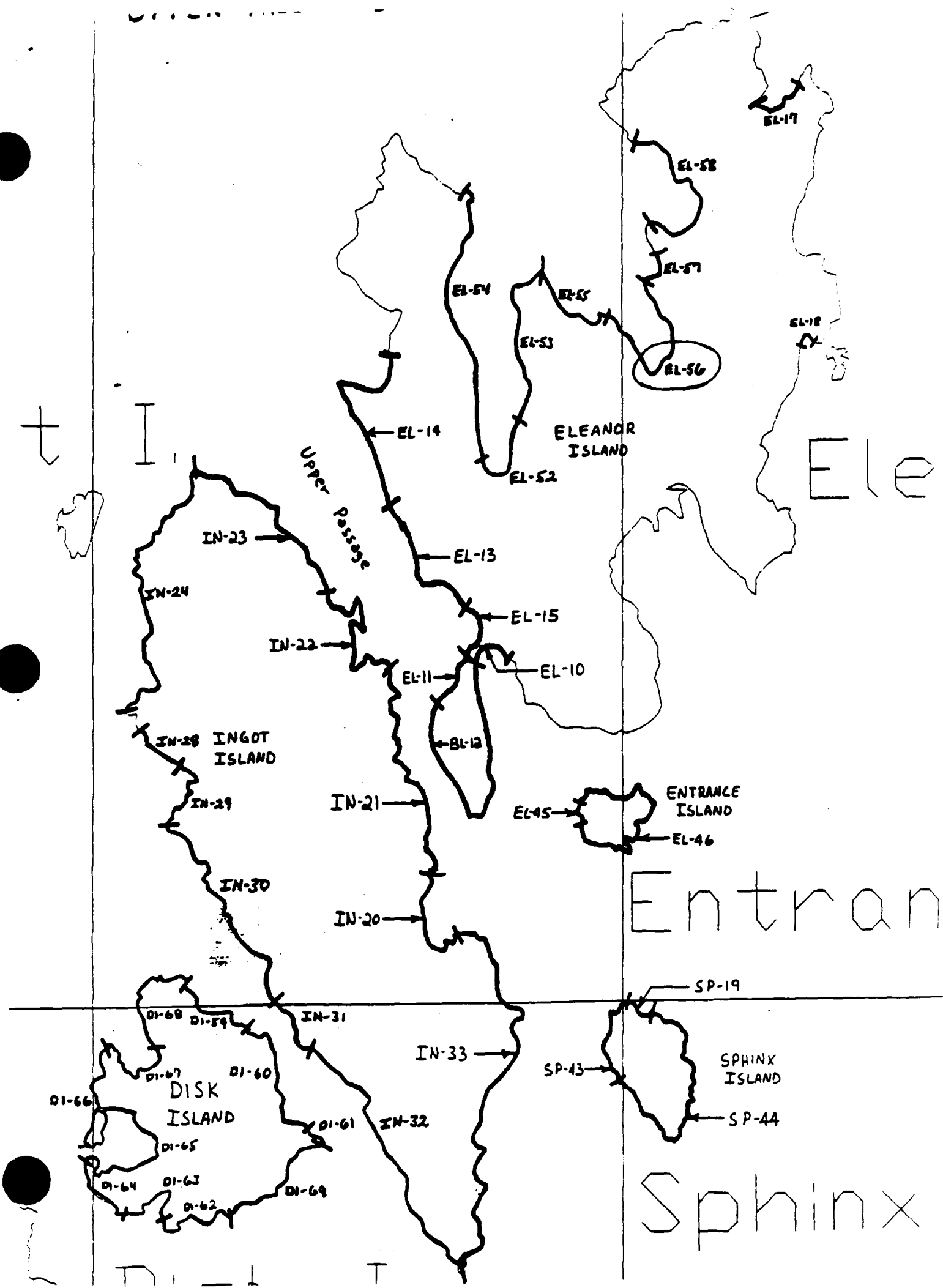
(version of, 4/17/89)

CULTURAL RESOURCE EVALUATION FOR OILED SHORELINE

Date 4-23-89 Location FLEAWOL Island Site EAST ARM OF NORTHWEST BAY
Location Prefix FL Segment # 5-6 Length _____ m
Survey Method: Air _____ (A - indicate on map)
Ground ✓ (G - indicate on map) Boat ✓ (B)
Known cultural resources (AHRS #) NONE Data Source _____
Oil conditions/beach visibility medium to heavy
Width of beach zone surveyed 3 m Tree fringe surveyed 10 m
Cultural resources observed in beach zone (AHRS code) NONE
Cultural resources observed in tree fringe (AHRS code) CDN, CMT
General observations justifying survey method and segment's site probability:
Shore Profile rocky cliffs except for a pocket beach along the eastern shore of the segment and a beach at the head of the arm
Fresh Water Sources small to larger streams
Sea Exposure protected at the head of Northwest Bay
Probability of undiscovered sites in beach zone (circle one) 1 2 3 4 5
Monitoring during cleanup needed yes/no Collection yes/no
Photos: Color Roll # HY Frames 35, 36, 37 (also 400 5:15)
B/W Roll # _____ Frames _____
Observer(s) MIKE YARBOROUGH
Time survey started 5:00 pm Time survey ended 6:07 pm
Cultural resource considerations/restraints:
NO ACCESS TO THE UPLANDS IF HEREFORE UNDISCOVERED CULTURAL REMAINS ARE UNCOVERED DURING CLEANUP CONTACT S. MCKAY, EXXON ARCHEOLOGIST IMMEDIATELY

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CHART



(version 4/26/89)

SHORELINE CLEANUP PROGRAM

DATE: April 26, 1989

SHORELINE SEGMENT EL-57

LOCATION: (see enclosed map) Little Cove, Northwest Bay, Eleanor
Island

ADEC NO. N/A SHORELINE ASSESSMENT DATE: 4-24-89

Recommended Cleanup Activity(ies):

Warm/cold water washing/flooding.

Warm water at moderate/high pressure .

Low/high pressure washing.

Priorities Considerations:

Herring spawning area.

Ecological Constraints (from site survey):

Stream outfall can be cleaned in middle and lower I.T.Z. . Try
not to uproot or trample grass at strand line.

Archeological Constraints (from site survey):

If heretofore undiscovered cultural material are uncovered
during cleanup contact, Exxon archaeologist C. Mobley and take
actions prescribed in the Operational Guidelines for Shoreline
Cleanup dated 4/21/89 as amended.

Charles E. Homer
State Historic Preservation Officer *

Date: 4/26/89

EXXON: _____

Date: _____

FOSC: _____

Date: _____

* Signature required to satisfy stipulations in Alaska DNR
land use permits for tide and submerged lands .

(version 4/28/89)

SHORELINE CLEANUP PROGRAM

DATE: April 28, 1989

SHORELINE SEGMENT EL-57

LOCATION: (see enclosed map) Northwest Bay - Eleanor Island

ADEC NO. 3 SHORELINE ASSESSMENT DATE: 4-24-89

Recommended Cleanup Activity(ies):

High pressure, hot water flushing ok at middle ITZ, if needed.
High volume cold flushing at upper edge of oil zone where beach
grass is healthy. Increase in pressure and temperature as necessary
for effective cleaning.

Priorities Considerations:

Ecological Constraints (from site survey):

Be careful not to uproot or trample grass growing at strand line.
Do not clean stream mouth.

Archeological Constraints (from site survey):

If heretofore undiscovered cultural materials are uncovered during
cleanup, contact Exxon archaeologist C. Mobley and take actions
prescribed in the Operational Guidelines for Shoreline Cleanup
dated 4/21/89 as amended.

Judith S. Bittner
State Historic Preservation Officer *

Date: 5/1/89

EXXON: _____

Date: _____

FOSC: _____

Date: _____

* Signature required to satisfy stipulations in Alaska DNR
land use permits for tide and submerged lands .

[revised 17 Apr 89]

SHORELINE OIL EVALUATION

Date: 4 / 24 / 89

Observer: C. DILLON

Time: 16 h 30 m
to 17 00

Weather: Sun/Cloud/Rain/Snow/Fog

LOCATION

LOCATION Eleanor Island (NW)

SITE Little Cove

LOCATION PREFIX EL

SEGMENT NUMBER EL-57

LATITUDE: 6 d m s

LONGITUDE: 147 d m s

LENGTH OF SHORELINE SEGMENT: 35 m 600

ACCESS: Foot/Vehicle/Boat/Barge/Helio/Float Plane

SHORELINE:

SHORELINE CHARACTER:

Beach/SPit/Cove shallow

Wave Exposure: High/Med/Low

Rock (Y)/N % 100 Vertical/High Angle Low Angle on N. 560 m of segm
on outer bounda
ies of segment

Sediment (Y)/N % 100 Types: 20% 40% 30% B / C / P / G / S / M / R

Strand Line (Y)/N Algae/Debris/Logs

OIL

LOCATION OF OIL: SU / SP / (H / M / L) (at high med. tide)

CONTINUOUS: (Y)/N WIDTH OF BAND: 10-12 m % of Segment 100

PATCHY: 10/20/30/40/50/60/70/80/90% coverage % of Segment

EST. OIL THICKNESS: ~ 2 cm EST. OIL PENETRATION: > 1/2 cm

POOLED OIL: (Y)/N "FREE" OIL: (Y)/N WEATHERED: (Y)/N

STRAND LINE CLEAN OILED

SUMMARY OILING: Amount High/Med/Low
Coverage Extensive/Moderate/Light

COMMENTS: Oil is thick consistency and up to about 2 cm thick in crevices between cobbles and boulders. Stream in approx. center of segment has cleaned upper ITZ but stream outfall at M + L ITZ is oiled - probably due to reoiling from heavy oil contained in boom.

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Northern most 560 m of segment is vertical face rock.

ADDITIONAL
NOTES ON
NEXT PAGE

4/28/89 Segment EL-57

Vertical face rock section
(to immediate North of
35m beach section) has
been added to segment
EL-57.

Corrections to data:

Length of shoreline segment

Shoreline character: % Rock
% Sediment

Addition to comments section
C. Dillon

ECOLOGICAL EVALUATION

LOCATION: Elephant Is. SITE: Little Cove OBSERVER: Sm BarnLOCATION PREFIX: EL SEG. NO.: 57 LENGTH: 35m (M)DATE: 4/24/89 TIME (HHMM): 1630 TIDE HT.: 2 (M)OILED ZONE: Splash High Medium LowSUBSTRATUM: Rocks Boulder Cobble Gravel Sand MudLIVE BIOTAFucus (algae): Patchy (Y/N) Contin. Y/N Dense (Y/N) Sparse Y/N None Y/NFucus also seen below water level - would be exposed at low tideMytilus (Mussels): Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None (Y/N)None seen but some may be found at lower tidal stageBalanus (Barnacles): Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None (Y/N)Same comment as for MytilusLittorinaPatchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None (Y/N)Same as aboveLimpets: Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None (Y/N)Same as aboveOTHER OBSERVATIONS: Grass growing near and above strand line
rocks oiled but grass is still greenCLEANUP PRECAUTIONS: be careful not to uproot grass at
strand lineMAMMALS: Otters _____ Harbor Seals _____ Sea Lions _____ Whales _____
Other _____BIRDS: None seenGENERAL OBSERVATIONS: Very thick oil at water level, boom at
mouth of cove holding oil in

(version of 4/17/89)

CULTURAL RESOURCE EVALUATION FOR OILED SHORELINE

Date 4/24/89 Location ELEANOR ISLAND Site LITTLE CREEK

Location Prefix EL Segment # EL 57 Length 35 m

Survey Method: Air _____ (A - indicate on map)

Ground X (G - indicate on map)

Known cultural resources (AHRS #) NONE Data Source NONE

Oil conditions/beach visibility HEAVY

Width of beach zone surveyed 2 m Tree fringe surveyed 10m

Cultural resources observed in beach zone (AHRS code) None

Cultural resources observed in tree fringe (AHRS code) None

General observations justifying survey method and segment's site probability:

Shore Profile beach slightly sloped but many large rocks present

Fresh Water Sources None

Sea Exposure west - protected

Probability of undiscovered sites in beach zone (circle one) 1 2 3 4 5

Monitoring during cleanup needed yes/no Collection yes/no

Photos: Color Roll # NONE Frames CAMERA LENS FOGGED

B/W Roll # _____ Frames _____

Observer(s) C. Wilson

Time survey started 1630 Time survey ended 1700

Cultural resource considerations/restraints:

If heretofore undiscovered cultural material is discovered during cleanup notify Exxon archaeologist, C. Mobley, immediately.

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DOCUMENTATION:

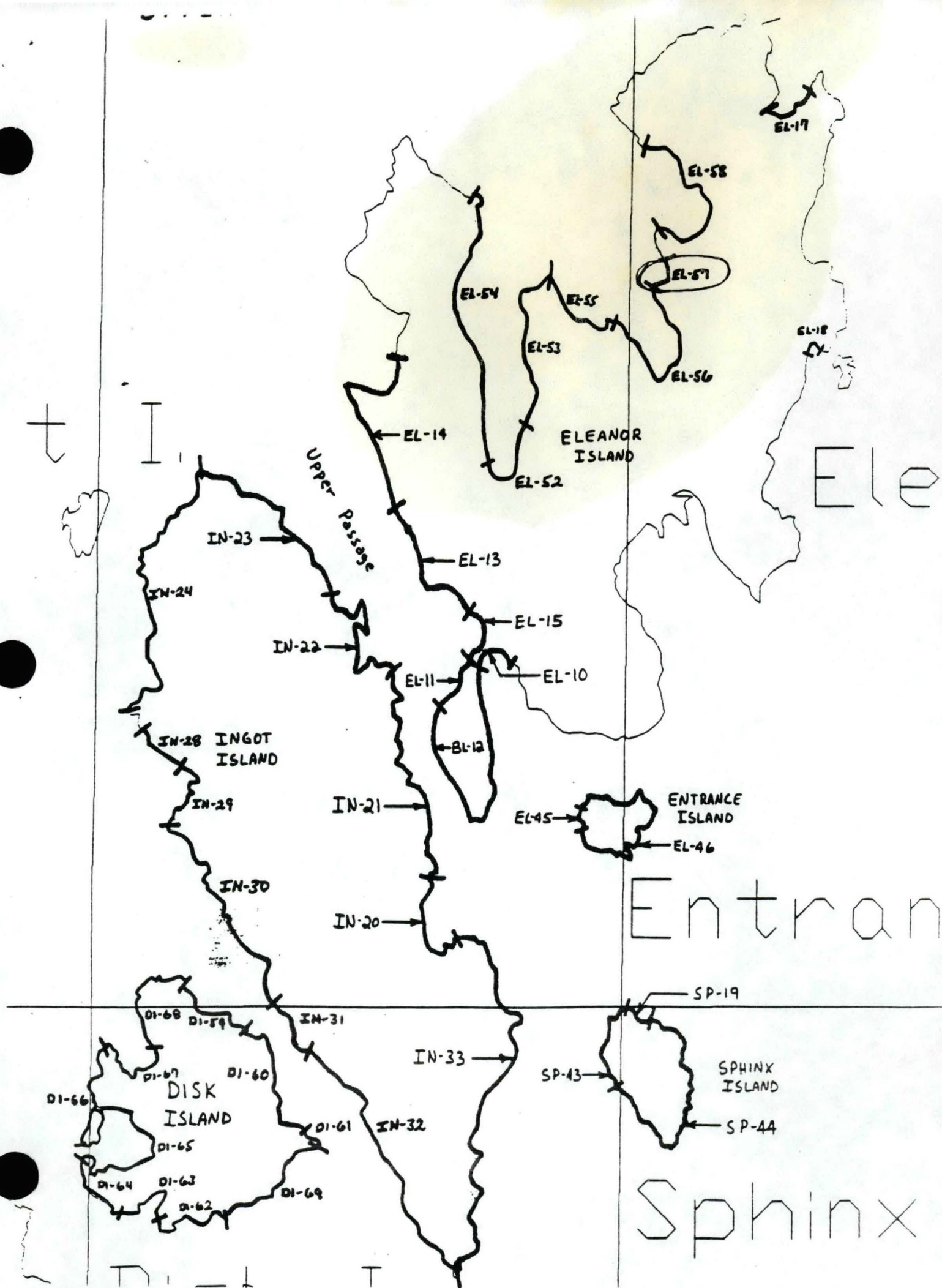
MAP/Aerial photo marking segment boundaries None

VTR: Y/N Tape Number(s) _____

PHOTOGRAPHY: Y/N Roll Number(s) _____

SAMPLE NUMBERS COLLECTED: None

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(version 4/26/89)

SHORELINE CLEANUP PROGRAM

DATE: April 26, 1989

SHORELINE SEGMENT EL-58

LOCATION: (see enclosed map) Big Cove, Northwest Bay, Eleanor
Island.

ADEC NO. 03 SHORELINE ASSESSMENT DATE: 4-24-89

Recommended Cleanup Activity(ies):

Warm/cold water washing/flooding.

Warm water at moderate/high pressure.

Low/high pressure washing.

Priorities Considerations:

Beach with smaller sediments has deeper penetration while areas with larger rocks has thicker accumulation on surface. Large stream outfall at northern most extent of the segment has cleaned this section of beach fairly well. Shoreline here does not need flushing, but needs containment to prevent re-oiling.

Ecological Constraints (from site survey):

Smaller streams can be cleaned where oil is beneath surface gravel. It is unlikely that these streams support anadromous fish.

Archeological Constraints (from site survey):

If heretofore undiscovered cultural material are uncovered during cleanup, contact Exxon archaeologist C. Mobley and take actions prescribed in the Operational Guidelines for Shoreline Cleanup dated 4/21/89 as amended.

Charles E. Horner
State Historic Preservation Officer *

Date: 4/26/89

EXXON: _____

Date: _____

FOSC: _____

Date: _____

* Signature required to satisfy stipulations in Alaska DNR land use permits for tide and submerged lands.

(version 4/28/89)

SHORELINE CLEANUP PROGRAM

DATE: April 28, 1989

SHORELINE SEGMENT EL-58

LOCATION: (see enclosed map) Eleanor Island - Northwest Bay

ADEC NO. 1 SHORELINE ASSESSMENT DATE: 4-24-89

Recommended Cleanup Activity(ies):

Low/high pressure washing or flooding, warm water if needed. Beach with smaller size sediments has deeper penetration while areas with larger rocks has thicker accumulation on surface.

Priorities Considerations:

The large stream outfall on the beach at the northern-most extent of the segment has cleaned the beach fairly well. Shoreline here does not need flushing but may need to be boomed to prevent reoiling from rest of segment cleaning operations.

Ecological Constraints (from site survey):

Suggest cleaning the run-out areas of the smaller streams since the oil is beneath the surface gravel. It is unlikely that these streams support anadromous fish.

Archeological Constraints (from site survey):

If heretofore undiscovered cultural materials are uncovered during cleanup, contact Exxon archaeologist C. Mobley and take actions prescribed in the Operational Guidelines for Shoreline Cleanup dated 4/21/89 as amended. No access to upland area.

Judith E. Bittner
State Historic Preservation Officer *

Date: 5/1/89

EXXON: _____

Date: _____

FOSC: _____

Date: _____

* Signature required to satisfy stipulations in Alaska DNR land use permits for tide and submerged lands .

[revised 17 Apr 89]

SHORELINE OIL EVALUATION

Date: 4 / 24 / 89

Observer: C. Dillon

Time: 15 h 00 m

Weather: Sun/Cloud/Rain/Snow/Fog

to 17 00
LOCATION

LOCATION Eleanor Island (NW)

SITE Big Cove

LOCATION PREFIX EL

SEGMENT NUMBER EL-58

LATITUDE: 6 d m s

LONGITUDE: 147 d m s

LENGTH OF SHORELINE SEGMENT: 550 m

ACCESS: Foot/Vehicle/Boat/Barge/Helio/Float Plane

SHORELINE:

→ at lower tide

SHORELINE CHARACTER:

shallow
BEach/SPit/Cove

Wave Exposure: High/Med/Low

Rock Y/N % 15 VERTICAL/High Angle/Low Angle See comments

Sediment Y/N % 85 Types: B / C / P / G / S / M / R see comment

Strand Line Y/N Algae/Debris/Logs

OIL

LOCATION OF OIL: SU / SP / H / M / L see comments

CONTINUOUS: Y/N WIDTH OF BAND: 5-15 m % of Segment 70

PATCHY: 10/20/30/40/50/60/70/80/90% coverage % of Segment 30

EST. OIL THICKNESS: ~2 cm EST. OIL PENETRATION: >10 cm

POOLED OIL: Y/N "FREE" OIL: Y/N WEATHERED: Y/N

STRAND LINE CLEAN/OILED

→ oil collected in crevices between larger sediments.

SUMMARY OILING: Amount High/Med/Low
Coverage Extensive/Moderate Light

COMMENTS: Segment is a series of about 7 shallow cove beach areas. Geomorphology, sediment size and degree of oiling varies between each beach. Refer to diagram for specifics.

ECOLOGICAL EVALUATION

LOCATION: ELEANOR IS. SITE: Big Cove OBSERVER: Sm Ben
 LOCATION PREFIX: EL SEG. NO.: 58 LENGTH: 3 550 (M)
 DATE: 4/24/89 TIME (HHMM): 1500 TIDE HT.: 2 (M)
 OILED ZONE: Splash High Medium Low
 SUBSTRATUM: Rocks Boulder Cobble Gravel Sand Mud

LIVE BIOTA

Fucus (algae): Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N

Many stems seen below water line

Mytilus (Mussels): Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N

None seen but tide was coming in

Balanus (Barnacles): Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N

Balanus seen just below water line - not living

Littorina

Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N

Limpets: Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N

OTHER OBSERVATIONS: Run-out at streams appear to be cleaning
surface however, oil 5-10cm down

CLEANUP PRECAUTIONS: Suggest cleaning the run-out area of
the streams (3 smallest ones) since anadromous fish not
expected

MAMMALS: Otters _____ Harbor Seals _____ Sea Lions _____ Whales _____
 Other Seal seen as motoring in.

BIRDS: None observed

GENERAL OBSERVATIONS: _____

(version of 4/17/89)

CULTURAL RESOURCE EVALUATION FOR OILED SHORELINE

Date 4/24/89 Location Eleanor Island Site Big Cove

Location Prefix EI Segment # 58 Length 550 m

Survey Method: Air _____ (A - indicate on map)

Ground _____ (G - indicate on map)

Known cultural resources (AHRS #) None Data Source None

Oil conditions/beach visibility mostly heavy with light/moderate patch

Width of beach zone surveyed _____ m Tree fringe surveyed _____

Cultural resources observed in beach zone (AHRS code) RSZ

Cultural resources observed in tree fringe (AHRS code) RSZ

General observations justifying survey method and segment's site probability:

Shore Profile seven small beaches with areas of heavy rock between them

Fresh Water Sources at least four streams

Sea Exposure west into protected bay

Probability of undiscovered sites in beach zone (circle one) 1 2 3 4 5

Monitoring during cleanup needed yes/no Collection yes/no

Photos: Color Roll # _____ Frames SEE HARRY YOUNG

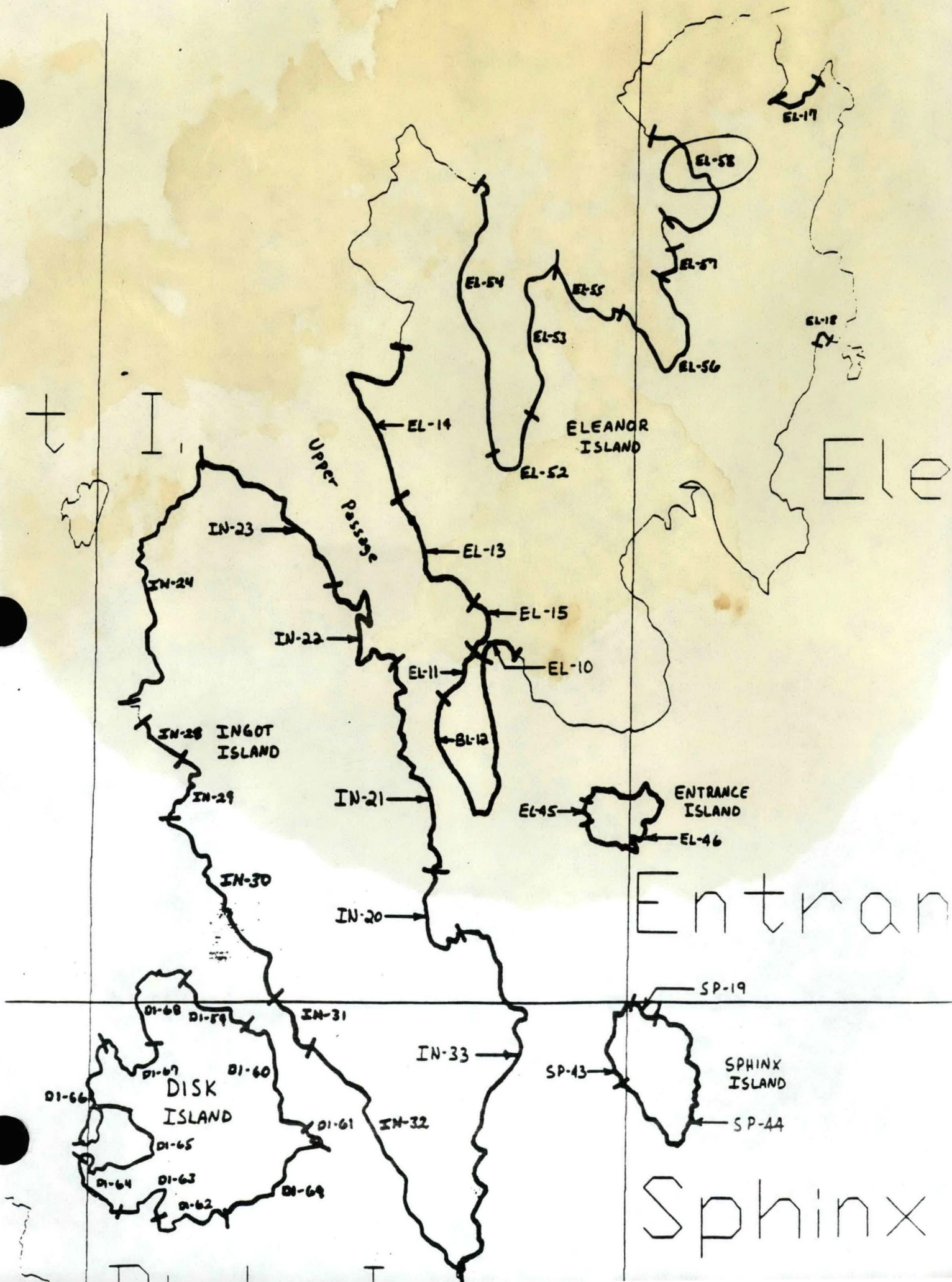
B/W Roll # _____ Frames _____

Observer(s) C. Wilson

Time survey started 1400 Time survey ended 1615

Cultural resource considerations/restraints:

If heretofore undiscovered cultural resources are uncovered during cleanup notify Exxon archaeologist, C. Mobley, immediately



INSPECTION # 1DATE 6/19/89

SEGMENT INSPECTION RECORD

Shoreline Treatment Process(es) Completed for this Segment

☐ Hot water wash	☒ Mechanical <u>HAND WIPING</u>
☒ Warm water wash	☐ Non-mechanical _____
☒ Water deluge	☐ Other _____

Exxon

Treatment as indicated above has been completed. Request demobilization from this segment.

Comments THIS SEGMENT IS ENVIRONMENTALLY CLEAN

Signature P.G. CAVAZOS Date: 6/19/89 Time: 12:00 PM

Printed Name P.G. CAVAZOS, JR.

Existing Shoreline Condition As Visually Evaluated by ADEC and USCG

Surface Oil	Subsurface Oil
☐ Heavily oiled	☐ Heavily oiled
☒ Medium oiled - in a few spots	☒ Medium oiled - in a few spots
☒ Lightly oiled - majority	☒ Lightly oiled - majority of segment
☐ Very lightly oiled	☐ Very lightly oiled
☐ No oil	☐ No oil
☐ No surface oil and no subsurface oil	

Reassessment

☒ Yes - necessary ☐ No - not necessary unless re-oiled

ADEC rep

Comments ADEC REP SIMON MANSON - HE GENERALLY CONCURRED W/ MY OBSERVATIONS - NOTE HE IS NOT DESIGNATED SIGNED FOR FORM

Signature _____

Date: / / Time: _____

Printed Name _____

FOSC rep

Demobilization approved/~~disapproved~~

Comments SWARE BOOM TO BE MAINTAINED & RECHECKED EVERY 2-3 DAYS & CHANGED AS NECESSARY. REQUESTED 2 AREAS HAVE ADDITIONAL SWARE BOOM IN PLACE

Signature THOMAS D. HARRISONDate: 6/19/89 Time: 1710Printed Name THOMAS D. HARRISON LT USCG

ELEANOR IS

TREATMENT MANUAL, 6/15/89

SEG EL-53 INSPECTION #

SEGMENT

DATE 6/25/89

INSPECTION RECORD

Shoreline Treatment Process(es) Completed for this Segment



Hot water wash



Mechanical

HAND-WIPING

Warm water wash



Non-mechanical



Water deluge



Other

Exxon

Treatment as indicated above has been completed. Request demobilization from this segment.

Comments

THIS SEGMENT IS ENVIRONMENTALLY
CLEAN

Signature

PG CAVATOS JR.Date: 6/25/89 Time: 15:00

Printed Name

PG CAVATOS JR

Existing Shoreline Condition As Visually Determined by USCG

Surface Oil

Subsurface Oil

Percent

Degree of Oiling



Yes



No

0

Heavy

20

Medium

20

Light

10

Very Light

50

None

100 %

Comments

SAND AREAS HAD LIGHT
CONTAMINATION
TO 8" DEEP.

Reassessment



Yes - necessary



No - not necessary unless re-oiled

ADEC rep

Comments Gross contamination removed. Reassessment definitelyneeded. Monitor w/ snare booms areas of medium oiling. Recommend
moving to areas of heavier contamination on East side of Eleanor Is.

Signature

Debra R. TimmonsDate: 6/27/89 Time: 1730

Printed Name

Debra R. Timmons, Env Engr, ADEC

EOSC rep

Demobilization approved/disapproved

ONLY TO YES THAT REQUIRES

4/27/89
APC

EL-54

Shoreline Treatment Process(es) Completed for this Segment

☒ Hot water wash
☐ Warm water wash
☐ Water deluge
☒ Mechanical Pom Pom + SNAR Boom
☐ Non-mechanical _____
☐ Other _____

Exxon

Treatment as indicated above has been completed. Request demobilization from this segment.

Comments THIS SEGMENT IS ENVIRONMENTALLY CLEAN

Signature Timothy W. Turner Date 8/10/85 Time: 1500hrs
 Printed Name TIMOTHY W. TURNER

Existing Shoreline Condition As Visually Determined by USCG

Surface Oil
Percent Degree of Oiling

Subsurface Oil

☒ Yes ☐ No

_____ Heavy
5% Medium
15% Light
5% Very Light
80% None
 100 %

Comments Minor Amounts @
CORRAL / GRAVEL AREAS - WILL
CONTINUE TO SHEAR BUT NOT
HEAVY AMTS.

Reassessment

☒ Yes - necessary ☐ No - not necessary unless re-oiled

ADEC rep Comments NOT PRESENT @ INSPECTION TOL

Signature _____ Date: / / Time: _____
 Printed Name _____

FOSC rep

Demobilization approved/disapproved

Comments THIS COATING OF TACKY OIL (NOT MUD) PERSISTENT
ALONG UPPER TIDE AREA OF SEGMENT.

Signature Thomas B. Jackson Date: 7/27/85 Time: 1200
 Printed Name THOMAS B. JACKSON LT USCG

EL-55 (R&D)

TREATMENT MANUAL, 6/15/89

SEG ~~EL-55~~ INSPECTION # 1

SEGMENT

DATE 89/07/30

INSPECTION RECORD

Shoreline Treatment Process(es) Completed for this Segment



Hot water wash



Mechanical



Warm water wash



Non-mechanical



Water deluge



Other HAND WIPE + SNAR

Exxon

Treatment as indicated above has been completed. Request demobilization from this segment.

Comments THIS SEGMENT IS ENVIRONMENTALLY CLEAN

Signature Timothy W. Turner

Date: 1 / 1 Time:

Printed Name TIMOTHY W. TURNER

Existing Shoreline Condition As Visually Determined by USCG

Surface Oil

Subsurface Oil

Percent Degree of Oiling



Yes



No

CAMEO

OPS

WAK

FWS

40 %

40 %

20 %

Heavy

Medium

Light

Very Light

None

100 %

Comments ON SAND AREAS

subsurface oil present. Some sheening off of areas throughout segment.

Reassessment



Yes - necessary



No - not necessary unless re-oiled

ADEC rep Comments Touch ups won't be required at time of signing

Signature

Date: 8/2/89 Time: 8:47

Printed Name Marc S. Swanson

FOSC rep

Demobilization approved/disapproved

Comments

Signature

Date: 8/2/89 Time: 08:50

Printed Name

DANIEL E. FOSTER

ELEPHANT ISLAND
~~PELOST~~ EL57
8/2/89

INSPECTION RECORD

8/4/89
98355905 P.02

Shoreline Treatment Process(es) Completed for this Segment

☒ Hot water wash	☒ Mechanical <u>HAND-WIPING</u>
☒ Warm water wash	☐ Non-mechanical
☒ Water deluge	☐ Other

Exxon
Treatment as indicated above has been completed. Request demobilization from this segment.

Comments THIS SEGMENT IS ENVIRONMENTALLY CLEAN
Signature P.G. CAVAZOS, JR. Date: 8/12/89 Time: 8:00 AM
Printed Name P.G. CAVAZOS, JR.

Existing Shoreline Condition As Visually Determined by USCG

Surface Oil		Subsurface Oil
Percent	Degree of Oiling	☒ Yes ☐ No
_____	Heavy	Comments <u>on sand bar</u>
<u>10%</u>	Medium	
<u>10%</u>	Light	
<u>20%</u>	Very Light	
<u>10%</u>	None	
100 %		

Reassessment
☒ Yes - necessary ☐ No - not necessary unless re-oiled

ADEC rep Comments _____
Signature Eric S. Garsen Date: 8/12/89 Time: 8:53
Printed Name Eric S. Garsen

FOSC rep Demobilization approved / disapproved
Comments _____
Signature Danny Fuchs Date: 8/12/89 Time: 05:20
Printed Name Danny Fuchs

(version 5/24/89)

SHORELINE PRE-CLEANUP ASSESSMENT BLOCK REPORT

Location (see enclosed map): STORM POINT BLOCK

Includes Shoreline Segments: EL-100, EL-101, EL-102, EL-103

Submitted :

GA [signature]
(for Exxon)

Date:

6/3/89

ISCC Approval:

Recommendation

Sharon K. Christopher

Date:

6/10/89

FOSC Approval:

A.C. Alexandria, by [signature]

Date:

6/11/89

The cleanup procedures identified in the Shoreline Cleanup Program are recommended. Modifications to these systems can be made in the field. Exxon and other field personnel are encouraged to suggest innovations and productivity enhancements to the OSC's on-scene representative. The OSC's representative has the authority to approve on-site modifications. The Field Resource Team should be consulted if these actions do not fit within the Ecological Constraints of the Shoreline Cleanup Program. Requirements for safety and the protection of cultural material must be observed.

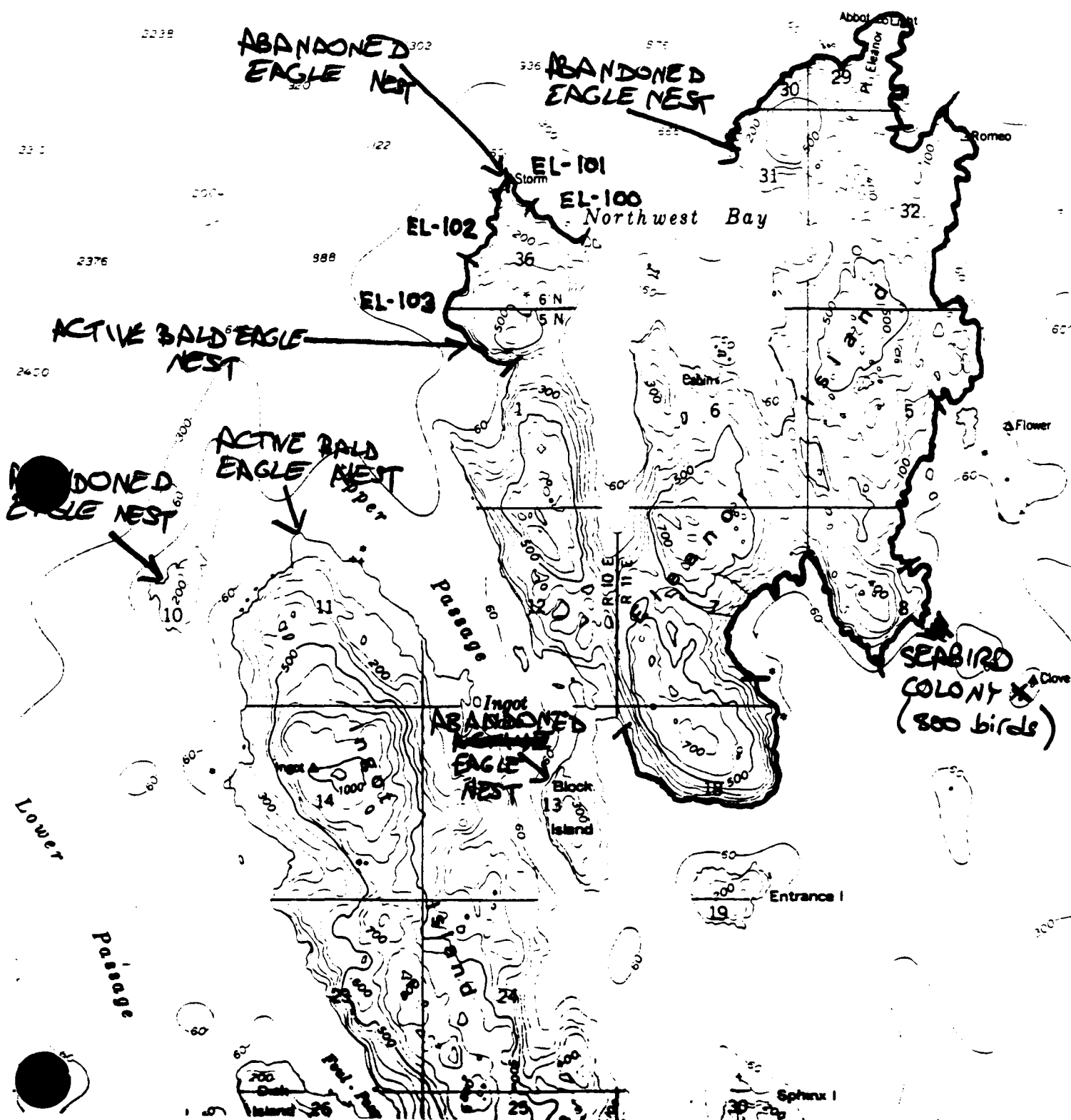
Distribution:

Exxon Shoreline Coordinator
Exxon Shoreline Supervisor
Exxon SCAT file

FOSC
CDFU
NOAA
EPA
USDA (FS)
USFW
A.DEC
A.FG
A.DNR
CAC
PWSCA
USFS
SHPO

STORM POINT BLUEN
EL-100, EL-101, EL-102, EL-103

6/6/89
6/9/89



SHORELINE CLEANUP PROGRAM

DATE 6/2/89

SHORELINE SEGMENT EL-100

LOCATION: (see enclosed map) Eleanor Island-Northwest extent
of Northwest Bay (Just south of Storm Point)

ADEC NO. _____ SHORELINE ASSESSMENT DATE: 5/26/89

Recommended Cleanup Activity(ies):

- Flood/flush boulders/cobbles with hot water/high pressure and pebbles/sand with hot water/low pressure or use other appropriate cleaning methods.
- Use appropriate methods for cleaning oil band on straight and headland rocks.
- Prevent oiling of lower intertidal zone.

Priorities Considerations:

Class 2B

Ecological Constraints (from site survey): Protect abundant biota in mid and low tidal zones during cleanup, particularly on headland rock adjacent to beaches. As much as possible, protect mytilus beds, ~~and leave focus holdfasts intact~~. Gently flush rock barrier on beach #2 to move littorina into water prior to cleanup procedures. FOLLOW OILED FOCUS GUIDELINES IN MANUAL.

Archeological Constraints (from site survey):

Restrict access to uplands during cleanup operations. If heretofore undiscovered cultural materials are uncovered during cleanup, contact Exxon's Archeological Field Director and take actions prescribed in the Operational Guidelines for Shoreline Cleanup dated 4/21/89 as amended.

Arthur E. Holmes
State Historic Preservation Officer *

Date: June 3, 1989

ISCC: Shayne K. Christopherson

EXXON: Deal

6-10-89
Date: June 10 - 89

FOSC: A. C. Olejnik, by dei.

Date: 6-11-89

* Signature required to satisfy stipulations in Alaska DNR land use permits for tide and submerged lands .

SHORELINE OIL EVALUATION

Date: 5/26/89 Time: 1000-1250

Observer: C. Dillon

Surveyed From: Foot/Boat/Helio/Plane

Weather: Sun/Cloud/Rain/Snow/Fog

LOCATION

LOCATION ELEANOR ISLAND SEGMENT NUMBER EL-100

LENGTH OF SHORELINE SEGMENT: 650 m

ACCESS: Foot/Vehicle/Boat/Barge/Helio/Float Plane

SHORELINE:

Shoreline Type: SPI/BEA/COV/HLD/STRT

Slope: LANG/HANG/VER

Wave Exposure: High/Med/Low

Sediment: B20% / C20% / P30% / ~~G~~ / S5% / M % / R30%

Drift Debris on Beach: Yes/No Supra/Upper/Mid/Lower Type logs/algae

OIL

Degree of Oiling: Heavy/Moderate/Light/No Oil/Unobserved

Area of Beach Impact: SU / SP / H / M / L

Continuous: Y/N % of Segment 100 Width of Band: <1/2 - 35 m

Sporadic: Y/N % of Segment

Est. Oil Thickness where > 1cm: cm Est. Oil Penetration: upto 15 cm

Pooled Oil: 0% "Free" Oil: 0% Coated: H80% / M0% / L15%

Fresh 100% Mousse 0% Tar Formation: 0%

Drift Debris Oiled? Yes/No Supra/Upper/Mid/Lower Amount: H/M/L/

Comments:

Segment consists of about 375m of vertical/high angle straight and headlands and 3 beaches about 50m long each. The straight rock face areas have a 1/2 to 2m wide oil band which is fresh in some places and a dried, light stain in others. See verbal description in verored notes. Each beach is evaluated separately on the following form.

SHORELINE OIL EVALUATION

Date: 5/26/89 Time: 1040-1115

Observer: C. Dillon

Surveyed From: Foot/Boat/Helio/Plane

Weather: Sun/Cloud/Rain/Snow/Fog

LOCATION

LOCATION ELEANOR ISLAND

SEGMENT NUMBER EL-100 (Beach 1)

LENGTH OF SHORELINE ^{Beach} SEGMENT: 60 m

ACCESS: Foot/Vehicle/Boat/Barge/Helio/Float Plane

SHORELINE:

Shoreline Type: SPI/BEA/COV/HLD/STRT

Slope: LANG/HANG/VER

Wave Exposure: High/Med/Low

Sediment: B 1 / C 25 / P 60 / G 1 / S 5 / M 1 / R 1

Drift Debris on Beach: Yes/No Supra/Upper/Mid/Lower Type logs/algae

OIL

Degree of Oiling: Heavy/Moderate/Light/No Oil/Unobserved

Area of Beach Impact: SU / SP / H / M / L

Continuous: Y/N % of Segment 100 Width of Band: 20-35 m

Sporadic: Y/N % of Segment

Est. Oil Thickness where > 1cm: <1 cm Est. Oil Penetration: <1 to >15 cm

Pooled Oil: 0 % "Free" Oil: 0 % Coated: H 40 % / M % / L 60 %

Fresh 100 % Mousse 0 % Tar Formation: 0 %

Drift Debris Oiled? Yes/No Supra/Upper/Mid/Lower Amount: H/M/L 1/0/0

Comments:

Headlands surrounding the beach are heavily oiled along a 3m wide band.

Refer to beach 1 diagram for details.

Photographs: Roll EL-1 photos 1-4 (Roll DESIGNAT

SHORELINE OIL EVALUATION

Date: 5/26/89 Time: 1140-1210

Observer: C. Dillon

Surveyed From: Foot/Boat/Helio/Plane

Weather: Sun/Cloud/Rain/Snow/Fog

LOCATION

LOCATION ELEANOR ISLAND

SEGMENT NUMBER EL-100 (Beach 2)

LENGTH OF SHORELINE ^{Beach} SEGMENT: 50 m

ACCESS: Foot/Vehicle/Boat/Barge/Helio/Float Plane

SHORELINE:

Shoreline Type: SPI/BEA/COV/HLD/STRT

Slope: LANG/HANG/VER

Wave Exposure: High/Med/Low

Sediment: B 30 % / C 60 % / P % / G % / S % / M % / R 10 %

Drift Debris on Beach: Yes/No Supra/Upper/Mid/Lower Type logs

OIL

Degree of Oiling: Heavy/Moderate/Light/No Oil/Unobserved

Area of Beach Impact: SU / SP / H / M / L

Continuous: Y/N % of ^{Beach} Segment 100 Width of Band: 15-20 m

Sporadic: Y/N % of Segment

Est. Oil Thickness where > 1cm: <1 cm Est. Oil Penetration: 4-6 cm

Pooled Oil: 0 % "Free" Oil: 0 % Coated: H 95 % / M % / L 5 %

Fresh 100 % Mousse 0 % Tar Formation: 0 %

Drift Debris Oiled ? Yes/No Supra/Upper/Mid/Lower Amount: H/M/L/

Comments:

Pebbles on uppermost high ITZ are stained and oil is dry.
High angle headland rocks on west side of beach have
an oil band at the ^{high tide} ITZ line. The band is <1 m
wide and the oil is mostly a dry stain.

See Beach 2 diagram for details

Photographs: Roll EL-1 exposures 5-9

(Roll DESIGNATION: T1G-1)

Exposure #10 is a steep boulder
slope along the headlands.

SHORELINE OIL EVALUATION

Date: 5/26/89 Time: 1220-1250

Observer: C. Dillon

Surveyed From: Foot/Boat/Helio/Plane

Weather: Sun/Cloud/Rain/Snow/Fog

LOCATION

LOCATION ELEANOR ISLAND

SEGMENT NUMBER EL-100 (Beach 3)

LENGTH OF SHORELINE ^{Beach} ~~SEGMENT~~: 50 m

ACCESS: Foot/Vehicle/Boat/Barge/Helio/Float Plane

SHORELINE:

Shoreline Type: SPI/BEA/COV/HLD/STRT

Slope: LANG/HANG/VER

Wave Exposure: High/Med/Low

Sediment: B 20% / C 45% / P 30% / G ___% / S ___% / M ___% / R 5%

Drift Debris on Beach: Yes/No Supra/Upper/Mid/Lower Type logs/algae

OIL

Degree of Oiling: Heavy/Moderate/Light/No Oil/Unobserved

Area of Beach Impact: SU / SP / H / M / L

Continuous: Y/N % of Segment 95 Width of Band: 25-30 m

Sporadic: Y/N % of Segment _____

Est. Oil Thickness where > 1cm: <1 cm Est. Oil Penetration: up to 15 cm

Pooled Oil: 0% "Free" Oil: 0% Coated: H 95% / M ___% / L <5%

Fresh 100% Mousse 0% Tar Formation: 0%

Drift Debris Oiled? Yes/No Supra/Upper/Mid/Lower Amount: H/M/L scattered loc
algae strand

Comments:

Headland and straight face rock at the north
extent of the headland has a 1m wide dried oil
stain which becomes sporadic to the end of the
segment.

See Beach 3 diagram for details.

Photographs: Roll EL-1 Exposures: 11-15

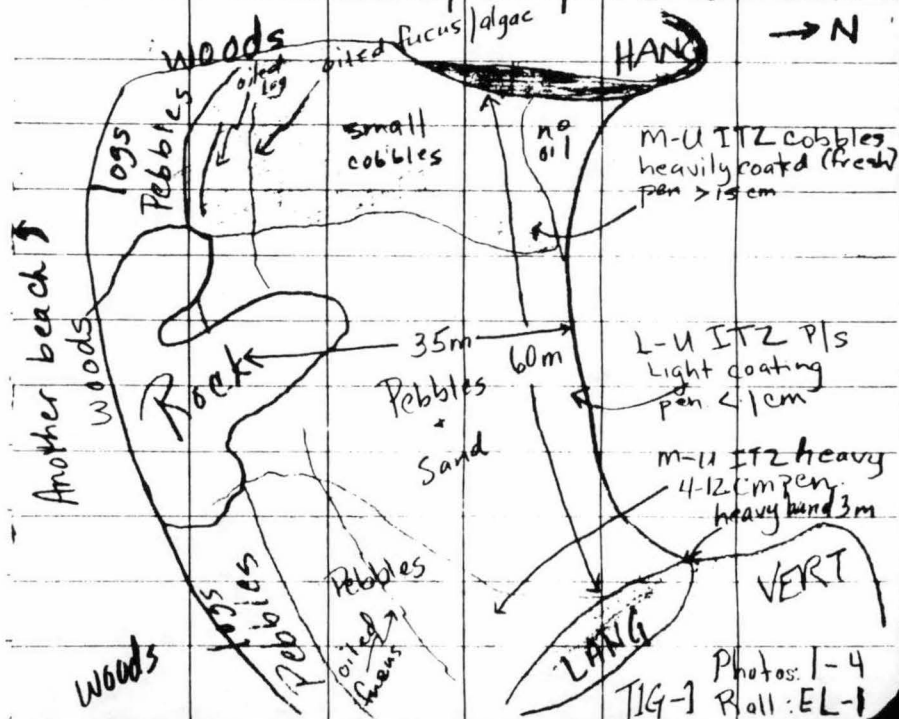
(ROLL DESIGNATION: T1A-1)

5/26/89 1030 NORTHWEST BA (48)
ELEANOR ISLAND (NW TIP - East of STORM PT.)

Headland rocks have a $\frac{1}{2}$ m or less
band of light oil (fresh) and a
2 m wide band of lightly/moderately
oiled fucus underneath. Boat survey.

SEGMENT EL-100
1040-1115 5/26/89

Beach 1: WX: Sunny; survey foot
access: bt/bg/helo/fit pln; wave: mod/H
SEDIMENT: 25C/60P/15S (sand substrate)



④ EL-100 Beach: 2 1140-1210

photos: S-9
Roll: EL-1
TIG-1

WX: Sunny Survey: foot
wave exp: High access: bt/bg/flt pln.

10R/30B/60C (beach)

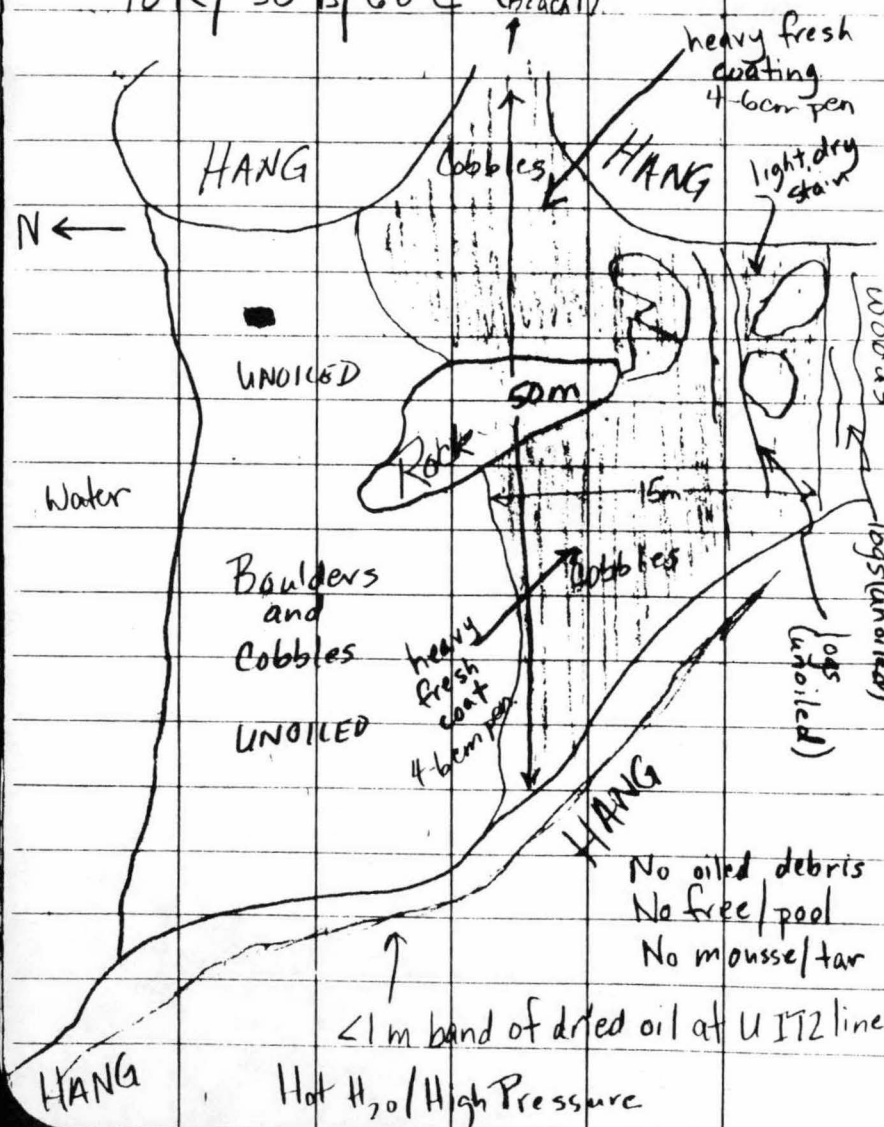


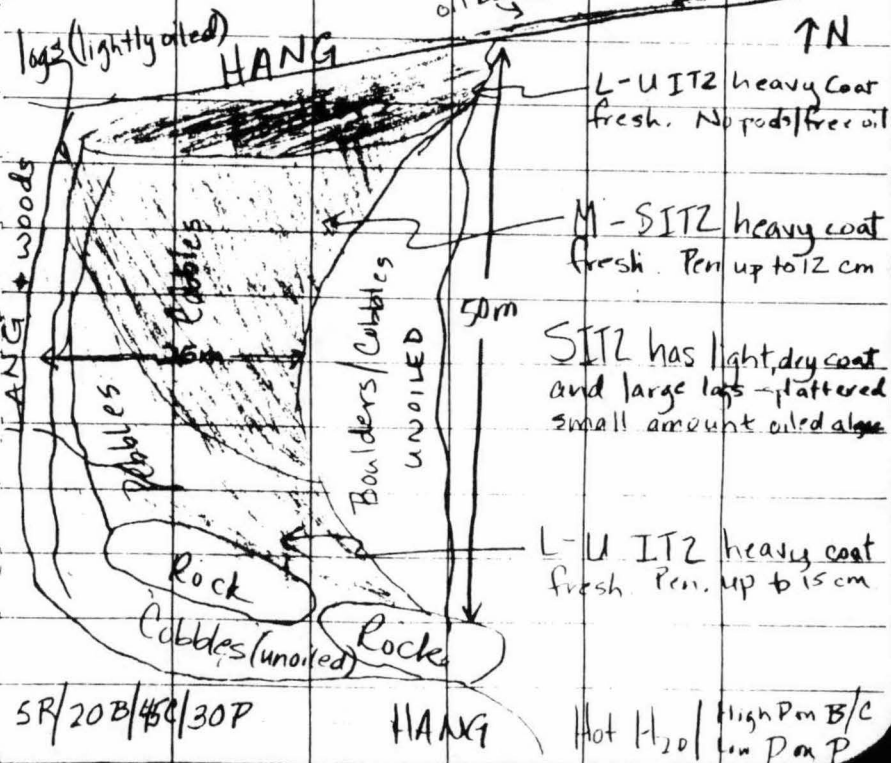
PHOTO: 10 Small Boulder slope. (50)
(Boat survey) and vertical headlands with dried oil band.

Segment continues Northwest toward Storm Point. Oil band is sporadic along HANG Straights. ~75m long

Beach 3: 1220-1250

Roll: EL-1 TIG-1
photos: 11-15

WX: Sunny Survey: foot
wave exposure: high access: bt/bg/flt pln.



ECOLOGICAL EVALUATION

LOCATION: ELEANOR ISLAND SITE: NW BAY OBSERVER: MEYER
 LOCATION PREFIX: EL SEG. NO.: 100 LENGTH: 650 (M)
 DATE: 05 / 26 / 89 TIME (HHMM): 1030 TIDE HT.: _____ (M)

OILED ZONE: Splash High ~~Medium~~ ~~Low~~

SUBSTRATUM: Rocks Boulder Cobble Gravel Sand Mud

LIVE BIOTA

Fucus (algae): Patchy Y/N Contin. Y/N Dense X/N Sparse Y/N None Y/N

Fucus on headland rocks oiled in HTZ/MTZ, ^{of oil} free or lightly oiled in LTZ.

Mytilus (Mussels): Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N

Present in both oiled and unoled zones, primarily on headland rocks.

Balanus (Barnacles): Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N

Present in both oiled and unoled zones.

Littorina

Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N

Beach #2 had abundant littorina on rock barrier down middle of cobble beach; littorina common in Fucus and headlands.

Limpets: Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N

OTHER OBSERVATIONS: ^{Headland} *Lower tidal zone rich with seaweed species and abundant starfish, also chitons, anemones present. Intertidal below cobble beaches (not headlands) with little biota.*

CLEANUP PRECAUTIONS: *Restrict all cleaning of rock faces/ headland rock to mid-high tide. Gently flush rock basin on cobble beach #2 with low pressure first to move littorina into the water.*

MAMMALS: Otters _____ Harbor Seals 1 Sea Lions _____ Whales _____
 Other _____

BIRDS: Eagle-1 Raven-1

GENERAL OBSERVATIONS: *Rockface between beaches has oiled zone directly adjacent to fucus - abundant littorina, barnacles, starfish with the fucus. Majority of fucus oil-free.*

(version of 4/29/89)

CULTURAL RESOURCE EVALUATION

Date 5/26/89 Location Eleanor Island Site _____

Location Prefix EL Segment # EL100 Length 650

Survey Method:

Air _____ (A - indicate on map) Boat _____ (A - indicate on map)

Ground ✓ (G - indicate on map) for beaches

Known cultural resources (AHRS #) None Data Source None

Oil conditions/beach visibility heavy

Width of beach zone surveyed 5-10m Tree fringe surveyed 10

Cultural resources observed in beach zone (AHRS code) None

Cultural resources observed in tree fringe (AHRS code) None

General observations justifying survey method and segment's site probability:

Shore Profile open to north moderately sloped beaches

Fresh Water Sources none

Sea Exposure open to north

Access/Safety good at low tide

Probability of undiscovered sites in beach zone (circle one) 1 (2) 3 4 5

Monitoring during cleanup needed yes ~~no~~ ^{*} Collection yes/no (no)

Photos: Color Roll # _____ Frames _____

B/W Roll # _____ Frames _____

Observer(s) C. Wilson

Time survey started 1030 Time survey ended 1400

Cultural resource considerations/restraints:

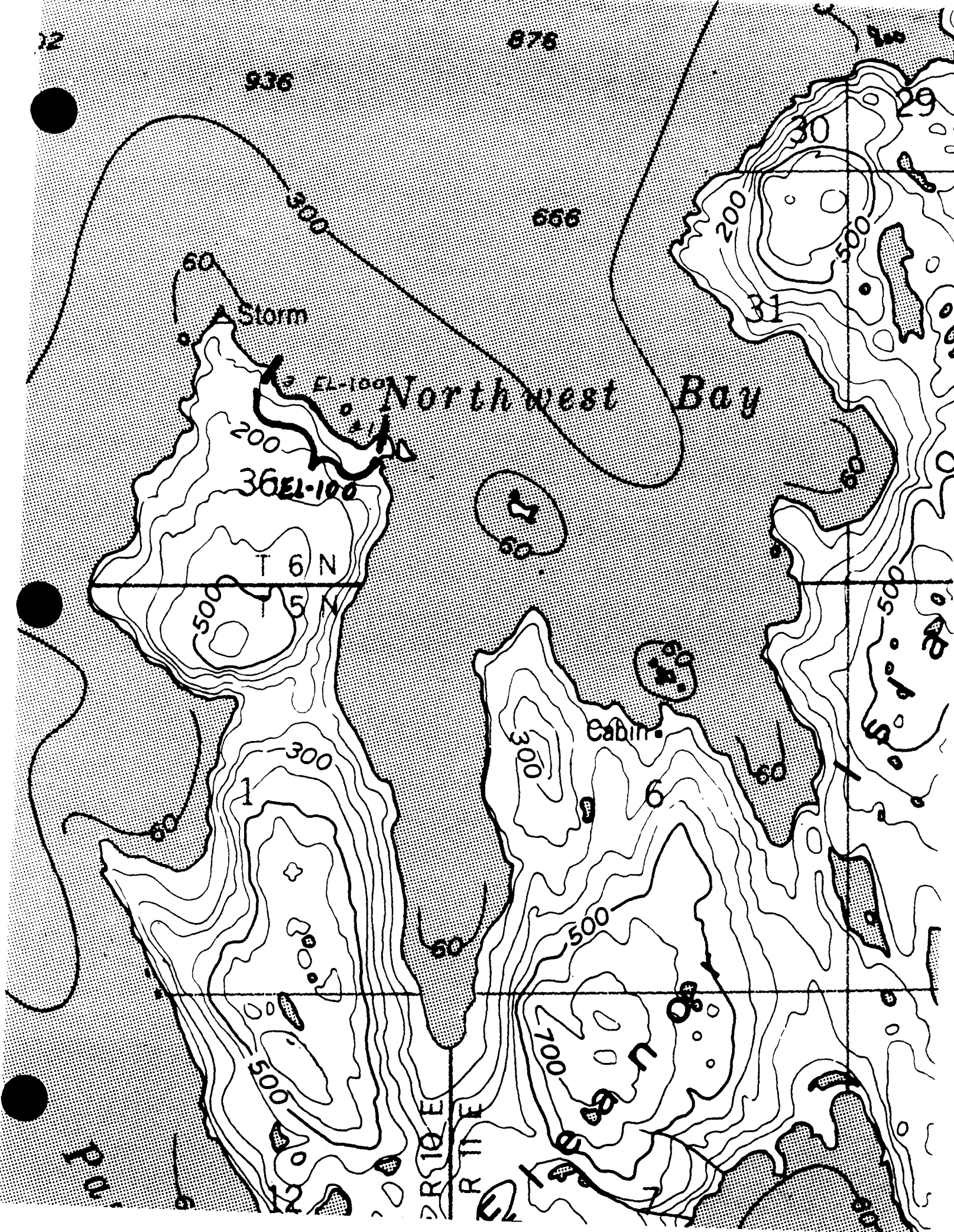
If possible, beach 1 should be monitored during cleanup.

If hereafter undiscovered cultural resources are identified

during cleanup, contact Epson archaeologist, C. Mobley,

immediately ~~£~~ Limited basis for requiring monitor.

* If possible Recommendation modified to "Restrict access..."
re ph sis. Cm tl. 1/2/89



(version 5/02/89)

SHORELINE CLEANUP PROGRAM

DATE 6/02/89

SHORELINE SEGMENT EL-101

LOCATION: (see enclosed map) ELEANOR ISLAND-Northwest extent
of Northwest Bay (just south of Storm Point)

ADEC NO. _____ SHORELINE ASSESSMENT DATE: 5/26/78

Recommended Cleanup Activity(ies):

- Flood/flush boulders/cobbles with hot water/high pressure and pebbles/sand with hot water/low pressure, or use other appropriate cleaning methods.
- Use appropriate methods for cleaning oil band on straight and headland rocks.
- Prevent oiling of lower intertidal zone.

Priorities Considerations:

Class 2A ~~(Eagle Nest)~~ ~~IGNORE ABANDON~~ EAGLE NEST HAS BEEN
ABANDONED - IGNORE ADVISORY.

Ecological Constraints (from site survey): Protect west rock headlands on beach #2 below oiled zone due to abundant unoled intertidal biota.

Archeological Constraints (from site survey):

If heretofore undiscovered cultural materials are uncovered during cleanup, contact Exxon's Archeological Field Director and take actions prescribed in the Operational Guidelines for Shoreline Cleanup dated 4/21/89 as amended.

Charles E. Holmes
State Historic Preservation Officer *

Date: June 3, 1989

ISCC: Sharon K. Christopher

EXXON: [Signature]

Date: 6-10-89
June 10 - 89

FOSC: A. C. Alexander, by dir.

Date: 6-11-89

*

Signature required to satisfy stipulations in Alaska DNR
land use permits for tide and submerged lands .

SHORELINE OIL EVALUATION

Date: 5/26/89 Time: 1255-1400

Observer: C. Dillon

Surveyed From: Foot/Boat/Helio/Plane

Weather: Sun/Cloud/Rain/Snow/Fog

LOCATION

LOCATION ELEANOR ISLAND

SEGMENT NUMBER EL-101

LENGTH OF SHORELINE SEGMENT: 350 m

ACCESS: Foot/Vehicle/Boat/Barge/Helio/Float Plane

SHORELINE:

Shoreline Type: SPI/BEA/COV/HLD/STRT

Slope: LANG/HANG/VER

Wave Exposure: High/Med/Low

Sediment: B 5 % / C 30 % / P 45 % / G 1 % / S 15 % / M 1 % / R 20 %

Drift Debris on Beach: Yes/No Supra/Upper/Mid/Lower Type logs/algae

OIL

Degree of Oiling: Heavy/Moderate/Light/No Oil/Unobserved

Area of Beach Impact: SU / SP / H / M / L

Continuous: Y/N % of Segment 100 Width of Band: 5-40 m

Sporadic: Y/N % of Segment

Est. Oil Thickness where > 1cm: <1 cm Est. Oil Penetration: up to 20 cm

Pooled Oil: 0 % "Free" Oil: 0 % Coated: H 40 % / M 30 % / L 30 %

Fresh 100 % Mousse 0 % Tar Formation: 0 %

Drift Debris Oiled? Yes/No Supra/Upper/Mid/Lower Amount: H/M/L algae, 1 lb
part of fallen t

Comments:

Segment included 2 beaches and about 125 m of headlands and vertical straights. The straights just north of Beach 2 have a 2m wide band of fresh, heavy oil. There is an oiled gully between the beaches. The 2 beaches are evaluated separately on the following pages. Diagrams are attached.

SHORELINE OIL EVALUATION

Date: 5/26/89 Time: 1255-1320

Observer: C. Dillon

Surveyed From: (Foot) Boat/Helio/Plane

Weather: (Sun) Cloud/Rain/Snow/Fog

LOCATION

LOCATION ELEANOR ISLAND

SEGMENT NUMBER EL-101 (Beach 1)

LENGTH OF SHORELINE ^{Beach} ~~SEGMENT~~: 30 m

ACCESS: Foot/Vehicle/(Boat)/Barge/Helio/Float Plane

SHORELINE:

Shoreline Type: SPI/(BEA)/COV/(HLD)/STRT

Slope: (LANG/HANG)/VER

Wave Exposure: (High)/Med/Low

Sediment: B 5 % / C 35 % / P 45 % / ~~G~~ % / S 5 % / M % / R 10 %

Drift Debris on Beach: (Yes)/No (Supra/Upper)/Mid/Lower Type logs/algae

OIL

Degree of Oiling: (Heavy/Moderate/Light/No Oil)/Unobserved

Area of Beach Impact: SU / SP / (H / M / L)

Continuous: (Y/N) % of ^{beach} Segment 100 Width of Band: 5-10 m

Sporadic: (Y/N) % of Segment

Est. Oil Thickness where > 1cm: <1 cm Est. Oil Penetration: <4-15 cm

Pooled Oil: 0 % "Free" Oil: 0 % Coated: H 30 % / M 20 % / L 50 %

Fresh 100 % Mousse 0 % Tar Formation: 0 %

Drift Debris Oiled? (Yes)/No (Supra/Upper)/Mid/Lower Amount: H/M/(L)

Comments:

Refer to diagram for details.

Photographs: Roll EL-1 Exposures 16-21 (Roll Designation TIG)

SHORELINE OIL EVALUATION

Date: 5/26/89 Time: 1320-1355

Observer: C. Dillon

Surveyed From: Foot/Boat/Helio/Plane

Weather: Sun/Cloud/Rain/Snow/Fog

LOCATION

LOCATION ELEANOR ISLAND

SEGMENT NUMBER EL-101 (Beach 2)

LENGTH OF SHORELINE ^{Beach} SEGMENT: 150 m

ACCESS: Foot/Vehicle/Boat/Barge/Helio/Float Plane

SHORELINE:

Shoreline Type: SPI/BEA/COV/HLD/STRT

Slope: LANG/HANG/VER

Wave Exposure: High/Med/Low

Sediment: B 10 % / C 25 % / P 50 % / G X % / S 5 % / M % / R 10 %

Drift Debris on Beach: Yes/No Supra/Upper/Mid/Lower Type logs/fallen tree

OIL

Degree of Oiling: Heavy/Moderate/Light/No Oil/Unobserved

Area of Beach Impact: SU / SP H / M / L

Continuous: Y/N % of Segment 100 Width of Band: 5-40 m

Sporadic: Y/N % of Segment

Est. Oil Thickness where > 1cm: <1 cm Est. Oil Penetration: 0-20 cm

Pooled Oil: 0 % "Free" Oil: 0 % Coated: H 60 % / M 30 % / L 10 %

Fresh 100 % Mousse 0 % Tar Formation: 0 %

Drift Debris Oiled ? Yes/No Supra/Upper/Mid/Lower Amount: H/M/L 1 log/partic fallen tree

Comments:

See attached diagram for details.

Photographs: Roll EL-1 Exposures 21-28

Roll DESIGNATION: T1G-1

51 5/26/89 EL-101

Beach 1: 1255 - 1320

Wx. Sun

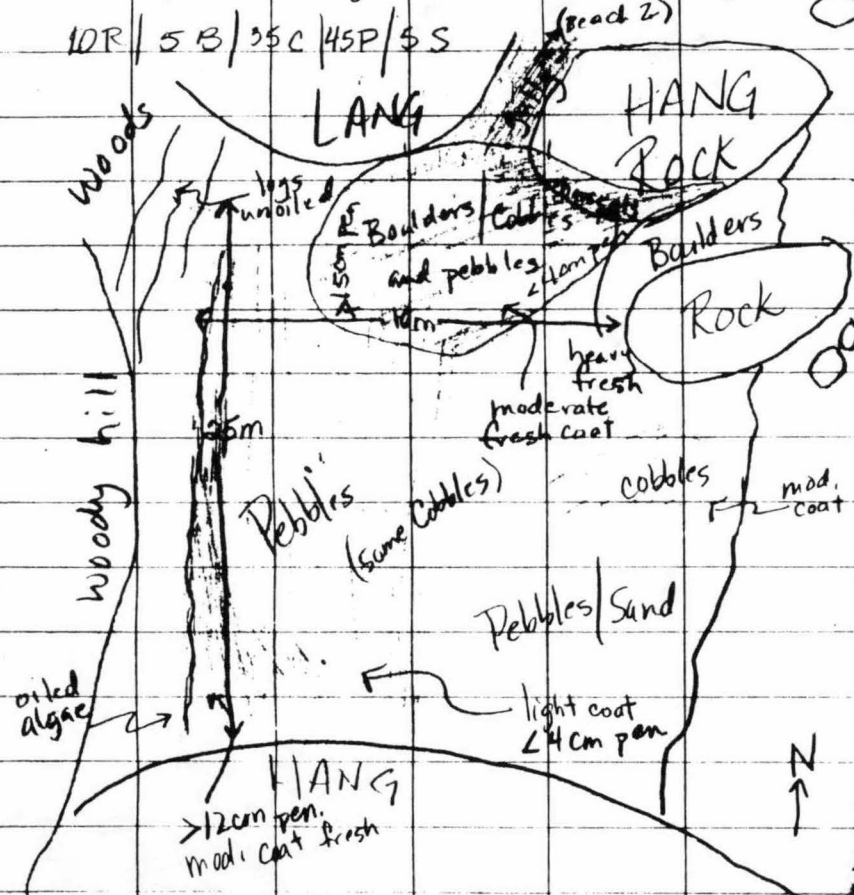
survey: foot

Wave exposure: high access: bt/bg/helo/flt pln.

10R/5B/35C/45P/5S

photos: 16-21

Roll: EL-1 T1G-1



Beach 2: 1320 - 1355

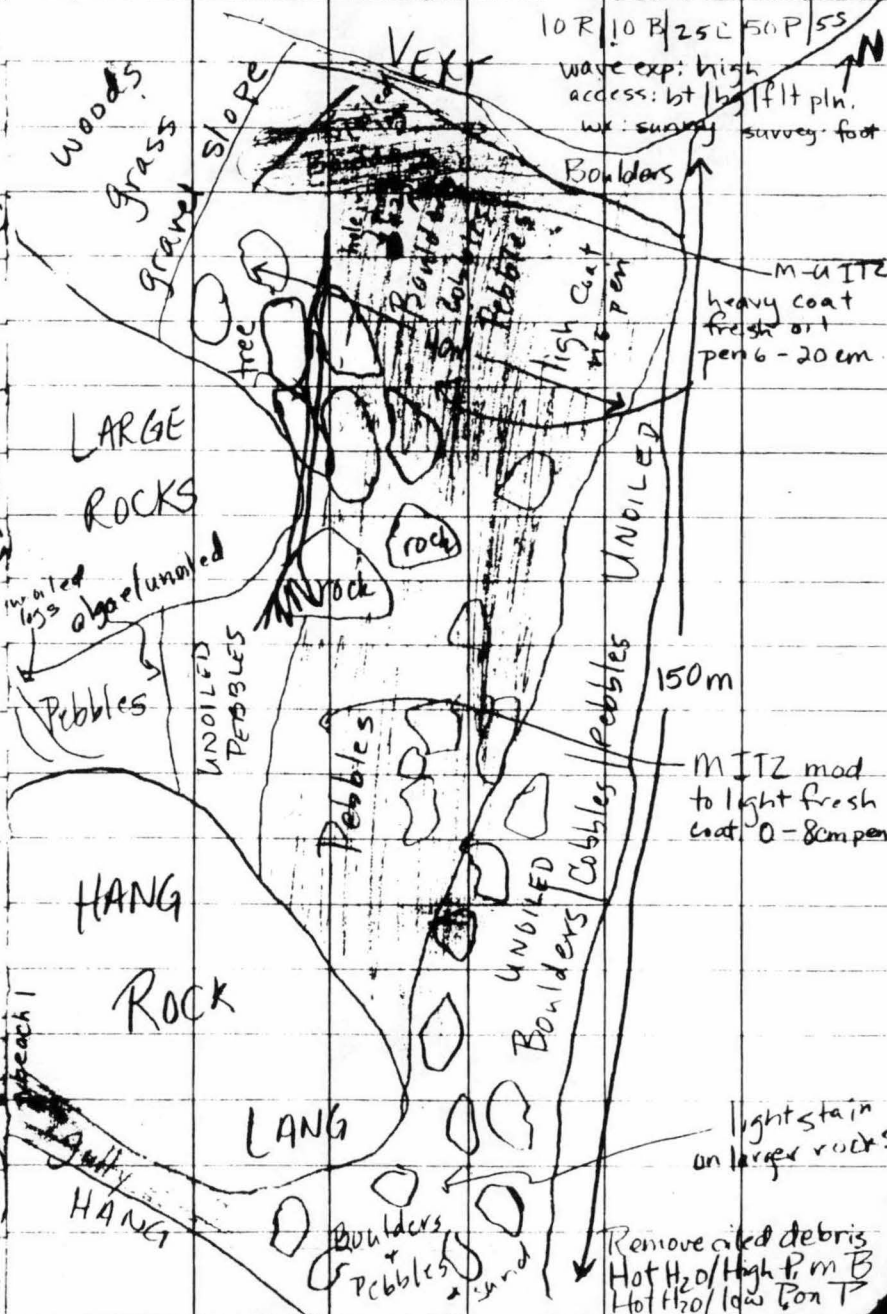
photos 22-28 (52)

Roll: EL-1 T1G-1

10R/10B/25C/50P/5S

Wave exp: high access: bt/bg/helo/flt pln.

Wx: sunny survey: foot



ECOLOGICAL EVALUATION

LOCATION: ELEANOR ISLAND SITE: NW BAY OBSERVER: MEYER
 LOCATION PREFIX: EL SEG. NO.: 101 LENGTH: 350 (M)
 DATE: 05 / 26 / 89 TIME (HHMM): 1255 TIDE HT.: _____ (M)
 OILED ZONE: Splash High Medium Low
 SUBSTRATUM: Rocks Boulder Cobble Gravel Sand Mud

LIVE BIOTA

Fucus (algae): Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N

Heavy oiling of fucus in connecting gully from Beach #1 to Beach #2

Mytilus (Mussels): Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/

Balanus (Barnacles): Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/

Littorina

Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N

Limpets: Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N

OTHER OBSERVATIONS: Beach #2 - west rock headlands have abundant starfish
and unsoiled seaweeds directly adjacent to oiled area. Intertidal area below
cobble/pebble beaches with little biota.

CLEANUP PRECAUTIONS: No constraints on flat cobble/boulder areas; protect west
rock headlands on beach #2 below oiled zone due to abundant intertidal biota.

MAMMALS: Otters _____ Harbor Seals 1 Sea Lions _____ Whales _____
 Other _____

BIRDS: Headlands between Segment 101 & 102 had 2 Bald Eagles and a nest.

GENERAL OBSERVATIONS: _____

(version of 4/29/89)

CULTURAL RESOURCE EVALUATION

Date 5/26/89 Location Eleena Island Site _____

Location Prefix EL Segment # EL-10A Length 350

Survey Method:

Air _____ (A - indicate on map) Boat ✓ _____ (A - indicate on map)

Ground ✓ _____ (G - indicate on map) Beaches

Known cultural resources (AHRS #) None Data Source _____

Oil conditions/beach visibility heavy

Width of beach zone surveyed 3-10m Tree fringe surveyed 10

Cultural resources observed in beach zone (AHRS code) None

Cultural resources observed in tree fringe (AHRS code) None

General observations justifying survey method and segment's site probability:

Shore Profile two moderately sloped beaches of cobble/boulder/gravel

Fresh Water Sources none

Sea Exposure open to north

Access/Safety none

Probability of undiscovered sites in beach zone (circle one) 1 2 3 4 5

Monitoring during cleanup needed yes no Collection yes no

Photos: Color Roll # _____ Frames _____

B/W Roll # _____ Frames _____

Observer(s) C. Wilson

Time survey started 1400 Time survey ended 1530

Cultural resource considerations/restraints:

If heretofore undiscovered cultural resources are identified during cleanup notify Exxon archaeologist, C. Mobley, immediately.

876

936

666

300

60

Storm
EL-101

Northwest Bay

200

36

T 6 N

T 5 N

500

300

1

60

Cabin

300

6

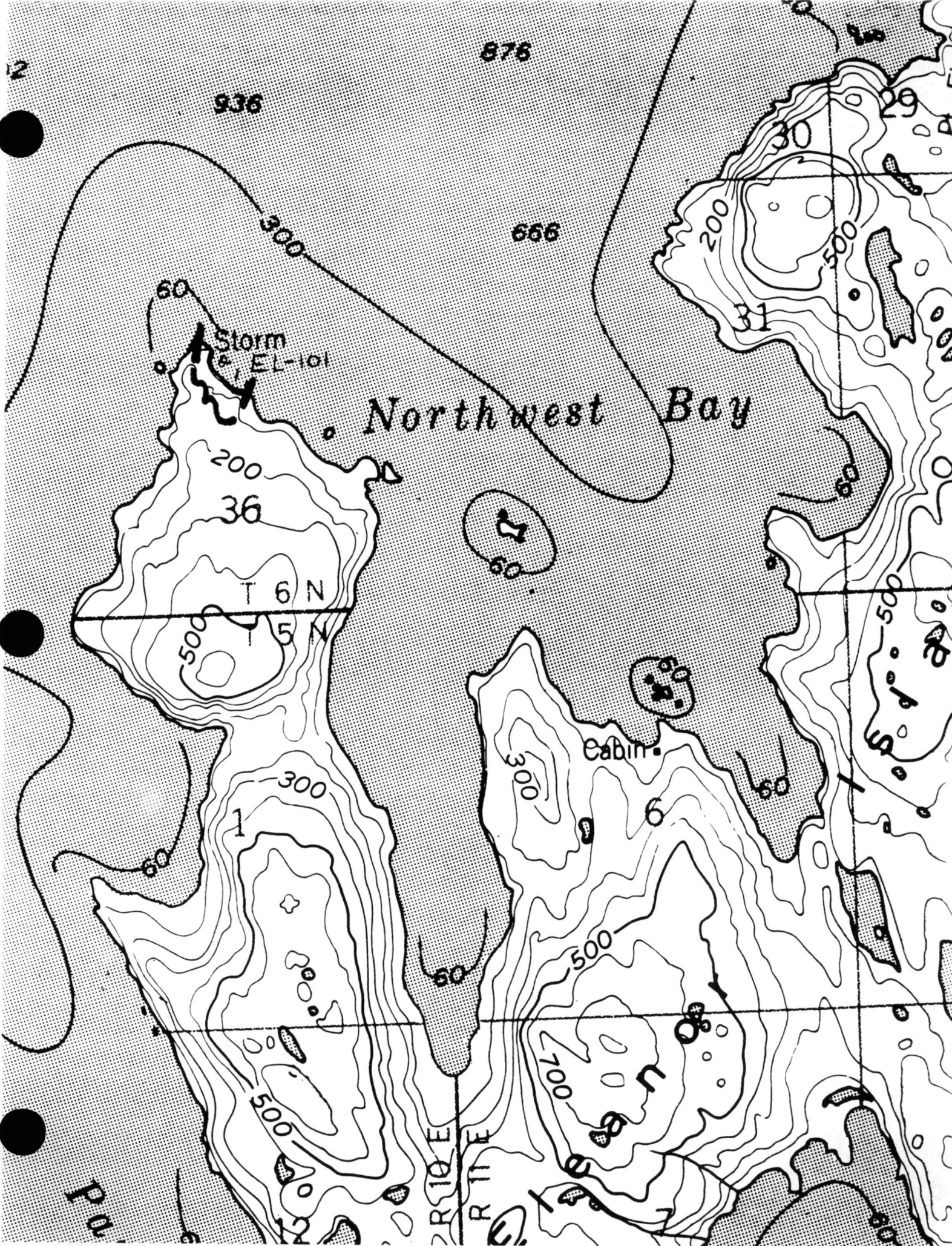
500

700

R 10 E

R 11 E

100



(version 5/02/89)

SHORELINE CLEANUP PROGRAM

DATE 6/02/89

SHORELINE SEGMENT EL-102

LOCATION: (see enclosed map) Eleanor Island-South and west of
Storm Point

ADEC NO. _____ SHORELINE ASSESSMENT DATE: 5/27/89

Recommended Cleanup Activity(ies):

- Remove free oil on beach #1 by appropriate means.
- Manually removed oiled debris.
- Flood/flush with hot water/high pressure on boulders/cobbles and hot water/medium pressure on pebbles or use other appropriate cleaning methods.
- Use appropriate cleaning methods for oiled headlands and rock walls.
- Prevent oiling of lower intertidal zone.

Priorities Considerations:

Class 2A

Ecological Constraints (from site survey): ~~Eagle's nest at beach #1.~~ Mid and low intertidal zones should be protected along bedrock outcrops.

Archeological Constraints (from site survey):

If heretofore undiscovered cultural materials are uncovered during cleanup, contact Exxon's Archeological Field Director and take actions prescribed in the Operational Guidelines for Shoreline Cleanup dated 4/21/89 as amended.

Charles J. Holmes
State Historic Preservation Officer *

ISCC: Shawn K. Christopherson

EXXON: [Signature]

FOSC: A. C. Clejanow, by dir

Date: June 3, 1989

6-10-89
Date: June 10 - 89

Date: 6-11-89

* Signature required to satisfy stipulations in Alaska DNR land use permits for tide and submerged lands .

SHORELINE OIL EVALUATION

Date: 5/26/89 1430-1530
5/27/89 Time: 1100-1250

Observer: C. DILLON

Surveyed From: Foot/Boat/Helio/Plane

Weather: Sun/Cloud/Rain/Snow/Fog

LOCATION

LOCATION ELEANOR ISLAND SEGMENT NUMBER EL-102

LENGTH OF SHORELINE SEGMENT: 1050 m

ACCESS: Foot/Vehicle/Boat/Barge/Helio/Float Plane

SHORELINE:

Shoreline Type: SPI/BEA/COV/HLD/STRT Slope: LANG/HANG/VER

Wave Exposure: High/Med/Low

Sediment: B 15 % / C 20 % / P 5 % / G 5 % / S % / M % / R 60 %

Drift Debris on Beach: Yes/No Supra/Upper/Mid/Lower Type logs/algae/deer bone

OIL

Degree of Oiling: Heavy/Moderate/Light/No Oil/Unobserved

Area of Beach Impact: SU / SP / H / M / L

Continuous: Y/N % of Segment 100 Width of Band: 1 - 30 m

Sporadic: Y/N % of Segment

Est. Oil Thickness where > 1cm: 24 cm Est. Oil Penetration: 4 - 10 cm

Pooled Oil: 0 % "Free" Oil: <1 % Coated: H 90 % / M 5 % / L 5 %

Fresh 95 % Mousse 5 % Tar Formation: 0 %

Drift Debris Oiled ? Yes/No Supra/Upper/Mid/Lower Amount: H/M/L/

Comments:

Segment consists of Rocky headlands and vertical rock wall with 6 beaches. The headlands and face wall has a moderate to heavy fresh oil band along its entire length varying from 1m to 4m in width at the mid to high tide levels.

Beaches are evaluated separately on the following pages.

SHORELINE OIL EVALUATION

Date: 5/26/89 Time: 1430-1500

Observer: C. Dillon

Surveyed From: Foot/Boat/Helio/Plane

Weather: Sun/Cloud/Rain/Snow/Fog

LOCATION

LOCATION ELEANOR ISLAND SEGMENT NUMBER EL-102 (Beach 1)

LENGTH OF SHORELINE ^{Beach} SEGMENT: 20 m

ACCESS: Foot/Vehicle/Boat/Barge/Helio/Float Plane

SHORELINE:

Shoreline Type: SPI/BEA/COV/HLD/STRT

Slope: LANG/HANG/VER

Wave Exposure: High/Med/Low

Sediment: B 30% / C 45% / P 20% / G ___% / S ___% / M ___% / R 5%

Drift Debris on Beach: Yes/No Supra/Upper/Mid/Lower Type logs

OIL

Degree of Oiling: Heavy/Moderate/Light/No Oil/Unobserved

Area of Beach Impact: SU / SP / H / M / L

Continuous: Y/N % of Segment 100 Width of Band: 15 m

Sporadic: Y/N % of Segment

Est. Oil Thickness where > 1cm: 2-4 cm Est. Oil Penetration: 2-8 cm

Pooled Oil: 0% "Free" Oil: 5% Coated: H 95% / M 0% / L 0%

Fresh 95% Mousse <5% Tar Formation: 0%

Drift Debris Oiled? Yes/No Supra/Upper/Mid/Lower Amount: H/M/L / stump

Comments:

Refer to Beach 1 on diagram for details.

Photographs: Roll: T1G-1 (EL-1 Exposures 33-36 end of roll)

SHORELINE OIL EVALUATION

Date: 5/26/89 Time: 1500-1530

Observer: _____

Surveyed From: Foot/Boat/Helio/Plane

Weather: Sun/Cloud/Rain/Snow/Fog

LOCATION

LOCATION ELEANOR ISLAND SEGMENT NUMBER EL-102 (Beach 2)

LENGTH OF SHORELINE ^{Beach} SEGMENT: 10 m for beach 2. Plus 2 m for the oiled gully adjacent to it.

ACCESS: Foot/Vehicle/Boat/Barge/Helio/Float Plane

SHORELINE:

Shoreline Type: SPI/BEA/COV/HLD/STRT

Slope: LANG/HANG/VER

Wave Exposure: High/Med/Low

Sediment: B40% / C15% / P40% / G__% / S__% / M__% / R5%

Drift Debris on Beach: Yes/No Supra/Upper/Mid/Lower Type logs/algae/deer bones

OIL

Degree of Oiling: Heavy/Moderate/Light/No Oil/Unobserved

Area of Beach Impact: SU / SP / H / M / L

Continuous: Y/N % of Segment 100 Width of Band: 10 m

Sporadic: Y/N % of Segment _____

Est. Oil Thickness where > 1cm: <1 cm Est. Oil Penetration: 2-8 cm

Pooled Oil: 0% "Free" Oil: 0% Coated: H100% / M__% / L__%

Fresh 100% Mousse _____ Tar Formation: _____%

Drift Debris Oiled? Yes/No Supra/Upper/Mid/Lower Amount: H/M/L algae/deer bones

Comments:

Refer to Beach 2 on diagram for details.

Photographs: Roll T1A-2 (EL-2 Exposures 1-10)

SHORELINE OIL EVALUATION

Date: 5/27/89 Time: 1100-1220

Observer: C. Dillon

Surveyed From: Foot/Boat/Helio/Plane

Weather: Sun/Cloud/Rain/Snow/Fog

LOCATION

LOCATION ELEANOR ISLAND

SEGMENT NUMBER EL-102 (Beaches 3, 4, 5)

LENGTH OF SHORELINE SEGMENT: 75 m (for all 3 beaches not including the headlands + straights between the

ACCESS: Foot/Vehicle/Boat/Barge/Helio/Float Plane

SHORELINE:

Shoreline Type: SPI/BEA/COV/HLD/STRT

Slope: LANG/HANG/VER

Wave Exposure: High/Med/Low

Sediment: B 40% / C 45% / P 10% / G ___% / S ___% / M ___% / R 5%

Drift Debris on Beach: Yes/No Supra/Upper/Mid/Lower Type logs/algae

OIL

Degree of Oiling: Heavy/Moderate/Light/No Oil/Unobserved

Area of Beach Impact: SU / SP / H / M / L

Continuous: Y/N % of Segment 100 Width of Band: 10-25 m

Sporadic: Y/N % of Segment ___

Est. Oil Thickness where > 1cm: <1 cm Est. Oil Penetration: ___ cm

Pooled Oil: ___% "Free" Oil: ___% Coated: H 100% / M ___% / L ___%

Fresh 95% Mousse 45% Tar Formation: ___%

Drift Debris Oiled? Yes/No Supra/Upper/Mid/Lower Amount: H/M/L

Comments:

The lower ITZ on all three beaches is unoiled.

Refer to diagrams for details.

No photos for beaches 4 and 5. Photos for beach 3 are on roll T1G-2 (EL-2 Exposures 14+15).

SHORELINE OIL EVALUATION

Date: 5/27/89 Time: 1230-1250

Observer: C. Dillor

Surveyed From: Foot/Boat/Helio/Plane

Weather: Sun/Cloud/Rain/Snow/Fog

LOCATION

LOCATION ELEANOR ISLAND

SEGMENT NUMBER EL-102 (Beach 6)

LENGTH OF SHORELINE ^{Beach} SEGMENT: 30 m

ACCESS: Foot/Vehicle/Boat/Barge/Helio/Float Plane

SHORELINE:

Shoreline Type: SPI/BEA/COV/HLD/STRT

Slope: LANG/HANG/VER

Wave Exposure: High/Med/Low

Sediment: B 10 % / C 40 % / P 35 % / G % / S % / M % / R 15 %

Drift Debris on Beach: Yes/No Supra/Upper/Mid/Lower Type logs/algae

OIL

Degree of Oiling: Heavy/Moderate/Light/No Oil/Unobserved

Area of Beach Impact: SU / SP / H / M / L

Continuous: Y/N % of Segment 100 Width of Band: 30 m

Sporadic: Y/N % of Segment

Est. Oil Thickness where > 1cm: <1 cm Est. Oil Penetration: 0-10 cm

Pooled Oil: % "Free" Oil: % Coated: H 15 % / M 70 % / L 15 %

Fresh 100 % Mousse % Tar Formation: %

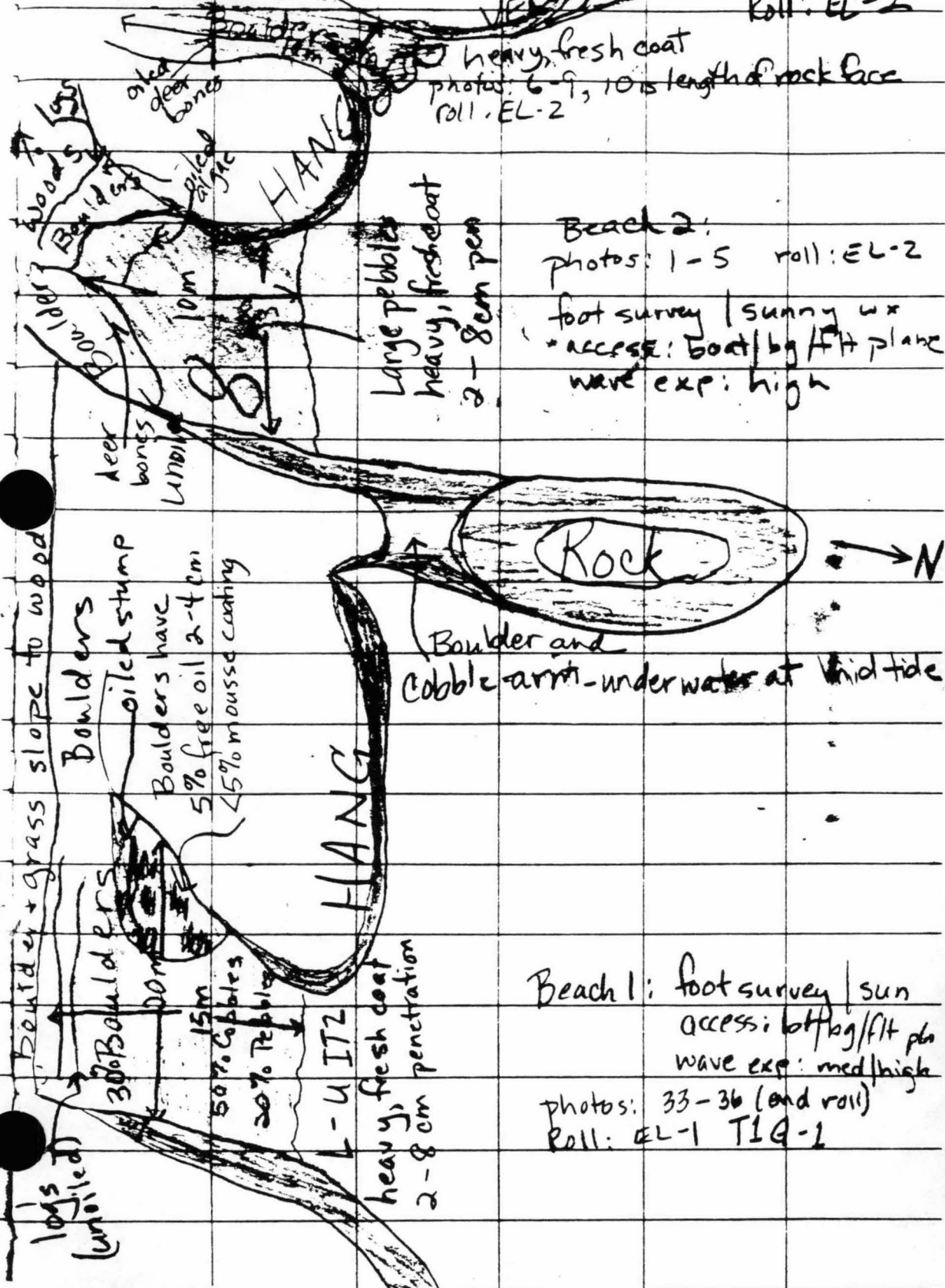
Drift Debris Oiled ? Yes/No Supra/Upper/Mid/Lower Amount: H/M/L 1 log, algae

Comments:

Refer to diagram for details

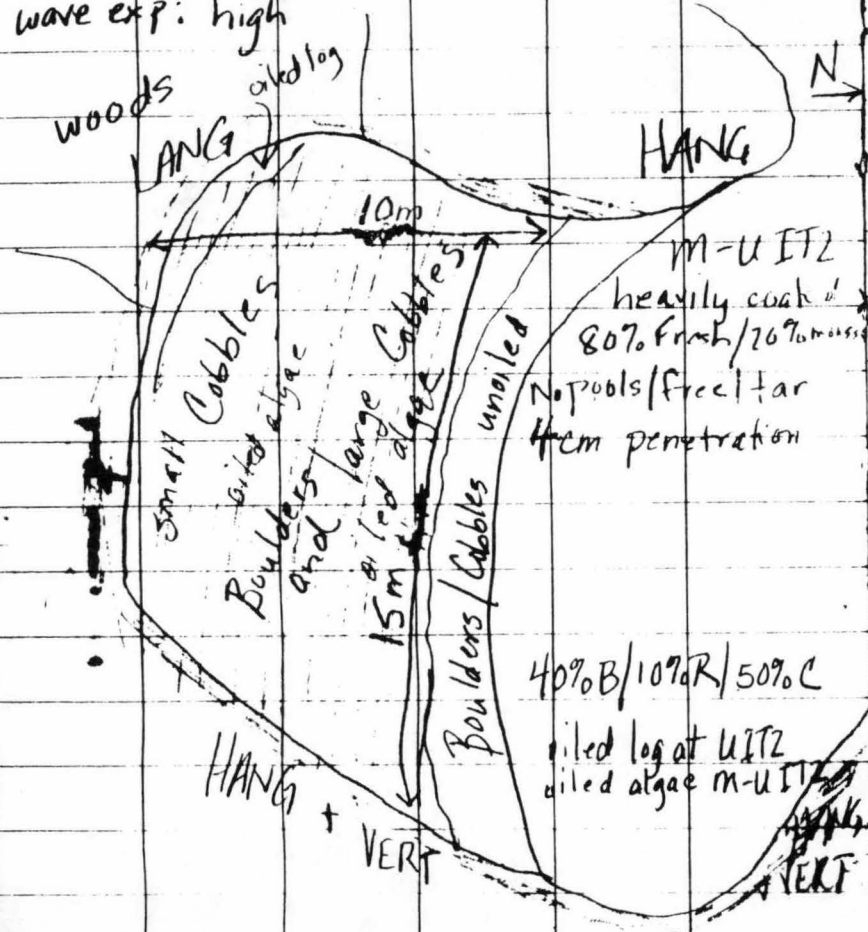
5/26/89 EL-102 1430-1530

Photos: 1-10 (54)
Roll: EL-2



5/27/89 EL-102 Beach 3 1100-1130

WX: Rain survey: foot access: bt/bg/ft plane
wave exp: high

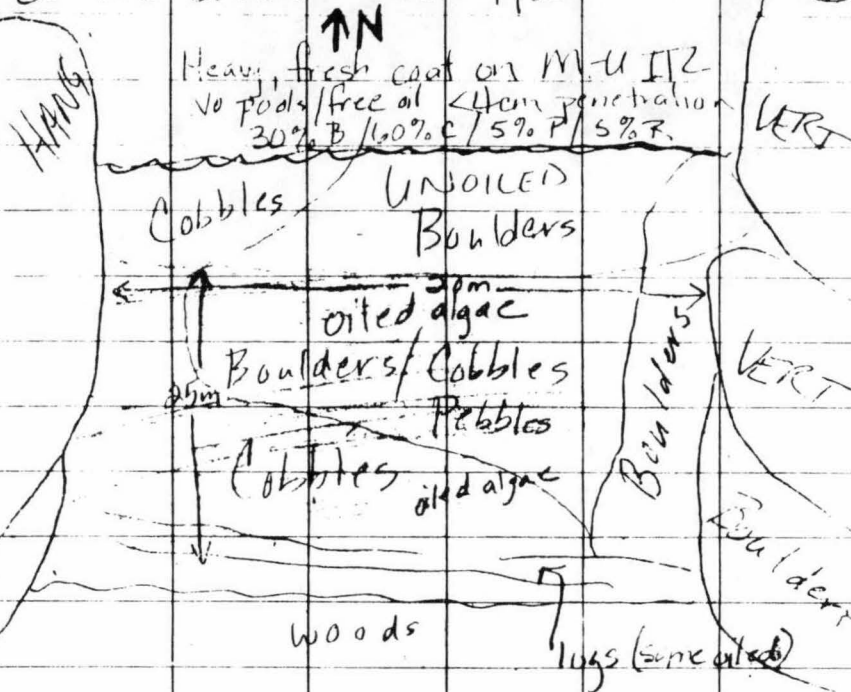


photos: 11-15

Roll: EL-2 T14-2

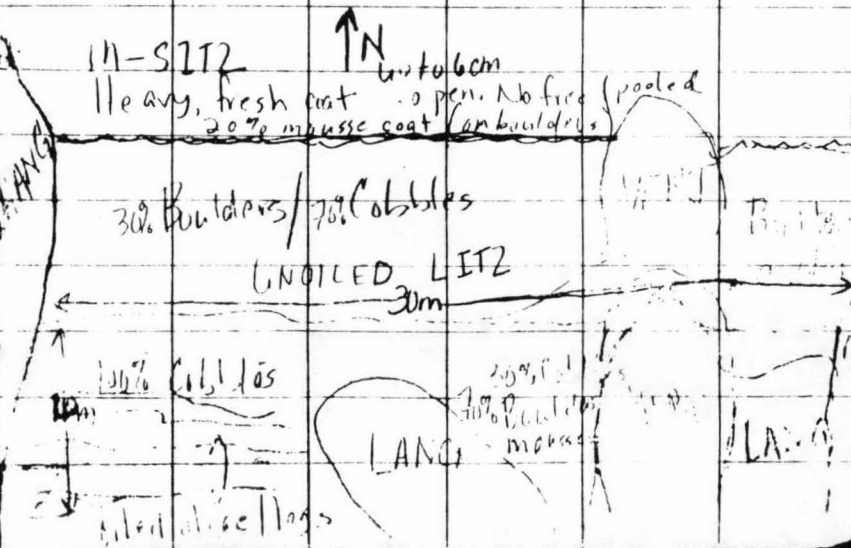
EL-102 Beach 4 1130-1155

Heavy, fresh coat on M-U ITZ
No pools/free air < 4cm penetration
30% B/60% C/5% P/5% R.



Beach 5 1200-1220

M-S ITZ
Heavy, fresh coat - 0 pen. No free (pooled)
20% mussel coat (on boulders)



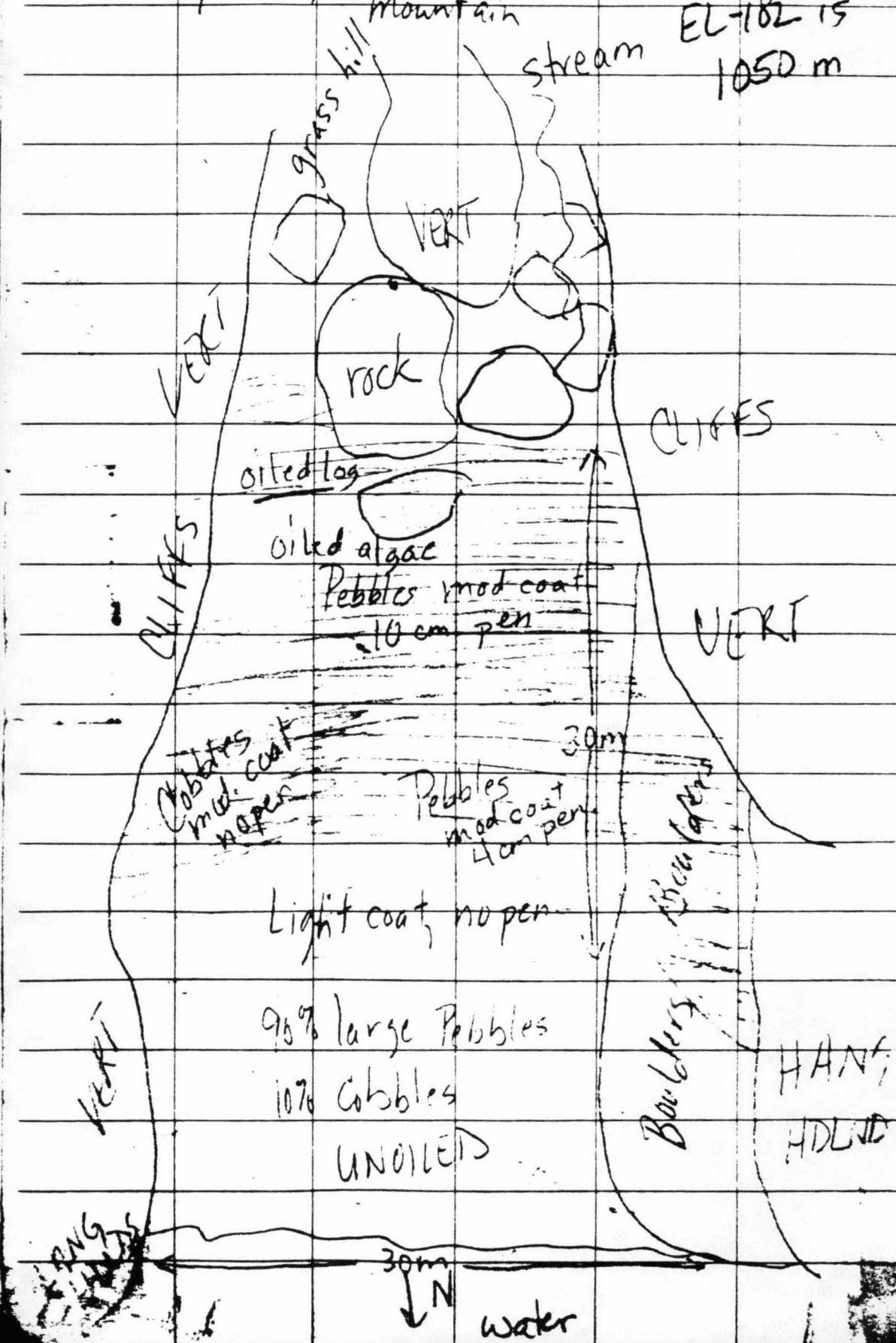
(57) EL-102 Beach 6 1230-1250

5% R / 5% B / 5% C / 85% P

Mountain

stream

Total length
of Segment
EL-102 is
1050 m



ECOLOGICAL EVALUATION

LOCATION: ELEANOR IS. SITE: _____ OBSERVER: A. E. JAHN
 LOCATION PREFIX: EL SEG. NO.: EL-102 LENGTH: 1050 (M)
 DATE: 5/27/89 TIME (HHMM): 1100-1400 TIDE HT.: 0.3 ft. (low) (M)
 OILED ZONE: Splash High Medium Low
 SUBSTRATUM: Rocks Boulder Cobble Gravel Sand Mud

LIVE BIOTA

Fucus (algae): Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N
on rocky points and cliffs - (on boulder benches, only in LTZ)

Mytilus (Mussels): Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/
mussel bed on rock near north end of beach #3; elsewhere in cracks

Balanus (Barnacles): Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/
large barnacles on bedrock only

Littorina

Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N

Limpets: Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N

OTHER OBSERVATIONS: very healthy mid-low intertidal community along cliff faces + rocky headlands; organisms sparse on cobble benches. Eusasterias common on rock @ north end of beach #5.

CLEANUP PRECAUTIONS: from beach #3 to end of segment, high tide only - to avoid reoiling mid+lower TZ

MAMMALS: Otters 1 Harbor Seals _____ Sea Lions _____ Whales _____
 Other _____

BIRDS: pair of eagles, with nest, at Beach #1

GENERAL OBSERVATIONS: _____

(version of 4/29/89)

CULTURAL RESOURCE EVALUATION

Date 5/27/89 Location Eleanor Island Site _____

Location Prefix EL Segment # EL-102 Length 1050m

Survey Method:

Air _____ (A - indicate on map) Boat ☒ (A - indicate on map)

Ground ☒ (G - indicate on map)

Known cultural resources (AHRS #) None Data Source None

Oil conditions/beach visibility moderate

Width of beach zone surveyed 5-15 m Tree fringe surveyed 10m

Cultural resources observed in beach zone (AHRS code) None

Cultural resources observed in tree fringe (AHRS code) None HTI

General observations justifying survey method and segment's site probability:

Shore Profile Beaches are all moderately sloped; some are mostly boulders and some are rippled cobble boulders.

Fresh Water Sources streams on two beaches.

Sea Exposure open to northwest

Access/Safety fair

Probability of undiscovered sites in beach zone (circle one) 1 (2) 3 4 5

Monitoring during cleanup needed yes (no) Collection yes (no)

Photos: Color Roll # _____ Frames _____

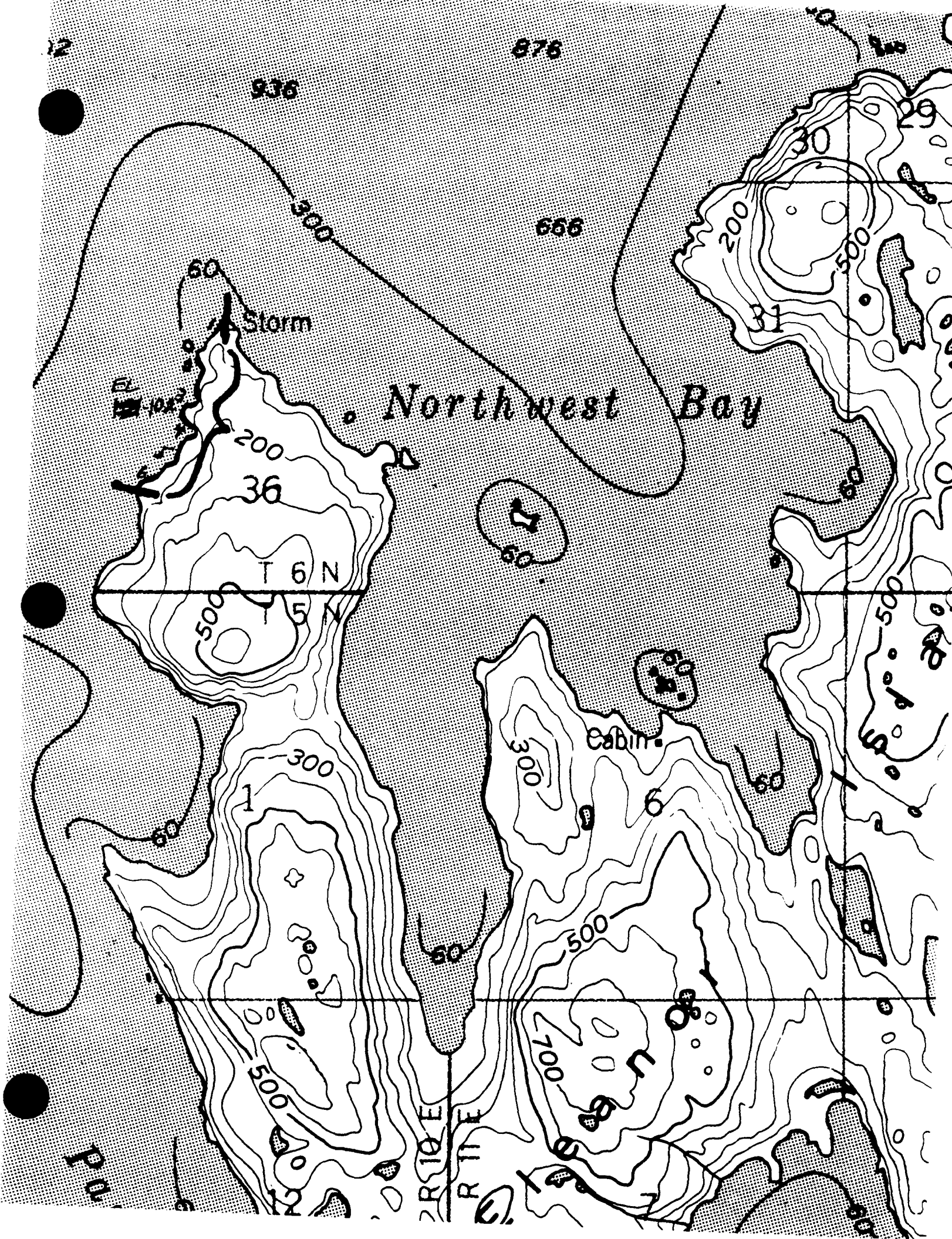
B/W Roll # _____ Frames _____

Observer(s) C. Wilson

Time survey started 1100 Time survey ended 1400

Cultural resource considerations/restraints:

If heretofore undiscovered cultural resources are uncovered during cleanup contact Epou archaeologist, C. Hobbs, immediately.



(version 5/02/89)

SHORELINE CLEANUP PROGRAM

DATE 6/02/89

SHORELINE SEGMENT EL-103

LOCATION: (see enclosed map) Eleanor Island-South and West of

Storm Point

ADEC NO. _____ SHORELINE ASSESSMENT DATE: 5/27/89

Recommended Cleanup Activity(ies):

- Flood/flush with hot water/high pressure on rock walls and boulder slopes on the southeastern end of the segment.
- No cleanup recommended for the remainder of the segment at this time subject to FOSC approval. The oiling is light and very sporadic and the beach has high wave exposure.

Priorities Considerations:

Class 2B (South end only) EAGLE NEST PRESENT - FOLLOD ADVISORY

Ecological Constraints (from site survey):

None, not enough oil to redistribute.

Archeological Constraints (from site survey):

If heretofore undiscovered cultural materials are uncovered during cleanup, contact Exxon's Archeological Field Director and take actions prescribed in the Operational Guidelines for Shoreline Cleanup dated 4/21/89 as amended.

Charles E. Holmes
State Historic Preservation Officer *

ISCC: Sharon K. Christopher

EXXON: [Signature]

FOSC: A.C. Alexander, by dir.

Date: June 3, 1989

June 10, 1989

Date: June 10 - 89

Date: 6-11-89

* Signature required to satisfy stipulations in Alaska DNR land use permits for tide and submerged lands .

SHORELINE OIL EVALUATION

Date: 5/27/89 Time: 1300-1330

Observer: C. Dillon

Surveyed From: Foot/Boat/Helio/Plane

Weather: Sun/Cloud/Rain/Snow/Fog

LOCATION

LOCATION ELEANOR ISLAND

SEGMENT NUMBER EL-103

LENGTH OF SHORELINE SEGMENT: 1400 m

ACCESS: Foot/Vehicle/Boat/Barge/Helio/Float Plane

SHORELINE:

Shoreline Type: SPI/BEA/COV/HLD/STRT

Slope: LANG/HANG/VER

Wave Exposure: High/Med/Low

Sediment: B 0 % / C % / P % / G % / S % / M % / R 90 %

Drift Debris on Beach: Yes/No Supra/Upper/Mid/Lower Type logs

OIL

Degree of Oiling: Heavy/Moderate/Light/No Oil/Unobserved

Area of Beach Impact: SU / SP / H / M / L

Continuous: Y/N % of Segment 25 Width of Band: 1-2 m

Sporadic: Y/N % of Segment 25

Est. Oil Thickness where > 1cm: <1 cm Est. Oil Penetration: 0 cm

Pooled Oil: % "Free" Oil: % Coated: H % / M % / L 10 %

Fresh 95 % Mousse 5 % Tar Formation: %

Drift Debris Oiled ? Yes/No Supra/Upper/Mid/Lower Amount: H/M/L/

Comments:

The northernmost 2/3 of the segment are mostly unoiled with a few sporadic patches of mousse splatters and some light, dry, stained oil band < 1 m wide. The final 40-80 m of the segment has a continuous 1-2 m wide band of heavy oil on the mid to-high tide zones.

ECOLOGICAL EVALUATION

LOCATION: ELEANOR IS. SITE: _____ OBSERVER: A.E. JANN
 LOCATION PREFIX: EL SEG. NO. EL-103 LENGTH: 1400 (M)
 DATE: 5/27/89 TIME (HHMM): 1400-1430 TIDE HT.: _____ (M)
 OILED ZONE: splash High Medium Low (except last 70 m) (southernmost)
 SUBSTRATUM: Rocks Boulder Cobble Gravel Sand Mud

LIVE BIOTA

Fucus (algae): Patchy Y/N Contin. (Y)/N Dense (Y)/N Sparse Y/N None Y/N

Mytilus (Mussels): Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y

Balanus (Barnacles): Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y

Littorina

Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N

Limpets: Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N

OTHER OBSERVATIONS: all cliff face - we did not land. Pterasterias +
Pisaster common

CLEANUP PRECAUTIONS: only last ~ 70 m of segment is likely
to benefit from cleanup effort.

MAMMALS: Otters _____ Harbor Seals _____ Sea Lions _____ Whales _____
 Other _____

BIRDS: _____

GENERAL OBSERVATIONS: diverse & healthy intertidal community

(version of 4/29/89)

CULTURAL RESOURCE EVALUATION

Date 5/29/89 Location Cleaver Island Site _____

Location Prefix EL Segment # EL-103 Length 1400m

Survey Method:

Air _____ (A - indicate on map) Boat ✓ (A - indicate on map)

Ground _____ (G - indicate on map)

Known cultural resources (AHRS #) None Data Source None

Oil conditions/beach visibility mostly light - some moderate

Width of beach zone surveyed 0 m Tree fringe surveyed 0

Cultural resources observed in beach zone (AHRS code) None

Cultural resources observed in tree fringe (AHRS code) None

General observations justifying survey method and segment's site probability:

Shore Profile all wall face and shoulder fields

Fresh Water Sources None - none

Sea Exposure open to north west / west

Access/Safety poor

Probability of undiscovered sites in beach zone (circle one) (1) 2 3 4 5

Monitoring during cleanup needed yes (no) Collection yes (no)

Photos: Color Roll # _____ Frames _____

B/W Roll # _____ Frames _____

Observer(s) C. Wilson

Time survey started 1400 Time survey ended 1430

Cultural resource considerations/restraints:

if heretofore undiscovered cultural resources are uncovered during cleanup notify Epur archaeologist, C. Mobley, immediately

32

878

936

666

Storm

Northwest Bay

200

36

T 6 N

5

60

300

200

31

500

60

500

200

300

1

60

300

Cabin

6

60

60

500

700

007

n

2 R 10 E

R 11 E

1

4

8

5

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0

0

0

0

0

0

0

0

0

0

0

TREATMENT MANUAL 6/15/89

SEG EL-100 INSPECTION # 1

SEGMENT

DATE 8/1/89

INSPECTION RECORD

Shoreline Treatment Process(es) Completed for this Segment

☐	Hot water wash	☐	Mechanical
☒	Warm water wash	☐	Non-mechanical
☒	Water deluge	☒	Other <u>HAND WIPING</u>

Exxon

Treatment as indicated above has been completed. Request demobilization from this segment.

Comments THIS SEGMENT IS ENVIRONMENTALLY CLEAN

Signature Timothy W. Turner Date: 89/07/26 Time: 1500HRS
 Printed Name TIMOTHY W. TURNER

Existing Shoreline Condition As Visually Determined by USCG

Surface Oil

Subsurface Oil

Percent Degree of Oiling

☒ Yes ☐ No

<u>20%</u>	Heavy
<u>30%</u>	Medium
<u>10%</u>	Light
<u>40%</u>	Very Light
	None

100 %

Comments COASTAL AREAS ARE A PROBLEM - WILL CONTINUE TO CLEAN OFF - AREA EXTENSIVELY OILED - WILL CONTINUE TO PUMP UP OIL - DIMINISHING RETURNS OF COLLECTING OIL.

Reassessment

☒ Yes - necessary ☐ No - not necessary unless re-oiled

ADEC rep Comments ALL PRESENT @ INSPECTION TOP

Signature _____ Date: 1 / 1 Time: _____

Printed Name _____

FOSC rep

Demobilization approved/disapproved

Comments - SEE SUBSURFACE OIL COMMENT

Signature Thomas D. Harrison Date: 7/27/89 Time: 1215
 Printed Name THOMAS D. HARRISON LT USCG

TREATMENT MANUAL, 6/15/89

SEG EL-101 INSPECTION # 1

SEGMENT

DATE 89/07/27

INSPECTION RECORD

Shoreline Treatment Process(es) Completed for this Segment

☒ Hot water wash	☒ Mechanical <u>Pom Pom + SNAR.</u>
☐ Warm water wash	☐ Non-mechanical _____
☒ Water deluge	☐ Other _____

Exxon

Treatment as indicated above has been completed. Request demobilization from this segment.

Comments THIS SEGMENT IS ENVIRONMENTALLY CLEAN.

Signature Timothy W. Turner Date: 89/07/26 Time: 1500 HR
 Printed Name TIMOTHY W. TURNER

Existing Shoreline Condition As Visually Determined by USCG

Surface Oil
Percent Degree of Oiling

Subsurface Oil

☒ Yes ☐ No

<u>20%</u>	Heavy
<u>30%</u>	Medium
<u>10%</u>	Light
<u>40%</u>	Very Light
	None
100 %	

Comments COBBLE AREAS ARE A PROBLEM - WILL CONTINUE TO OFF - AREA EXTENSIVELY WASHED - DSE CONTINUES TO PUMP UP OIL HOWEVER DIMINISHING RETURN COLLECTIBLE OIL.

Reassessment

☒ Yes - necessary ☐ No - not necessary unless re-oiled

ADEC rep Comments NOT PRESENT @ INSPECTION NOT

Signature _____ Date: / / Time: _____

Printed Name _____

FOSC rep

Demobilization approved/disapproved

Comments SEE COMMENT UNDER SUBSURFACE OIL

Signature Thomas D. Harrison Date: 7/27/89 Time: 1220

Printed Name THOMAS D. HARRISON LT USCG

DATE 7-11-89

INSPECTION RECORD

Shoreline Treatment Process(es) Completed for this Segment



Hot water wash



Mechanical



Warm water wash

Non-mechanical SURF & AM.

Water deluge

Other

Exxon

Treatment as indicated above has been completed. Request demobilization from this segment.

Comments TREATMENT OF SEGMENT EL-102 IS COMPLETE AND READY FOR DEMOBILIZATION AND DEPLOYMENT TO NEXTSignature MD [Signature]Date: 7/11/89 Time: 7:15Printed Name MD [Signature]

Existing Shoreline Condition As Visually Determined by USCG

Surface Oil

Subsurface Oil

Percent Degree of Oiling



Yes



No

0

Heavy

50

Medium

30

Light

20

Very Light

20

None

100 %

Comments Light

Reassessment



Yes - necessary



No - not necessary unless re-oiled

ADEC rep Comments Gross contamination removed. Residue remaining to surface. Northern end of segment had small pocket of free oil.Signature [Signature]Date: 7/11/89 Time: 1:50Printed Name DOUGLAS H. DASHER, FETLE, ADEC

FOSC rep

Demobilization approved/disapproved

Comments Gross contamination removed. Area is exposed to oil and is further re-oiling of surface. Oiling is not effective. RecommendSignature [Signature]Date: 7/11/89 Time: 1:50Printed Name AVE [Signature]

*Waiver and Reassessment in 30 days

COPY: EXXON ADEC FOSC ISCC

SEG EL-103 INSPECTION # 1

SEGMENT

DATE 7-11-89

INSPECTION RECORD

Shoreline Treatment Process(es) Completed for this Segment

☒ Hot water wash
☒ Warm water wash
☒ Water deluge

☐ Mechanical
☒ Non-mechanical SURF & A4
☐ Other _____

Exxon

Treatment as indicated above has been completed. Request demobilization from this segment.

Comments TREATMENT OF SEGMENT EL-103 IS COMPLETEREADY FOR DEMOBILIZATION AND RETURN TO WORK SITESignature M D MoeDate: 7/11/89 Time: 7:15 AMPrinted Name M D Moe

Existing Shoreline Condition As Visually Determined by USCG

Surface Oil

Subsurface Oil

Percent Degree of Oiling

☒ Yes ☐ No

0 Heavy
35 Medium
40 Light
0 Very Light
25 None

100 %

Comments ONE OIL SPILL
BEHIND APPROX. TO VES UNDER 100
LIGHT TO MODERATE CONTAMINATION

Reassessment

☒ Yes - necessary☐ No - not necessary unless re-oiledADEC rep Comments Green contamination removedSignature Douglas H. Dasher Date: 7/11/89 Time: 1500Printed Name Douglas H. Dasher, Evg. III, ADEC

FOSC rep

Demobilization approved/disapprovedComments Green contamination removed. Area is exposed toopen water and is reflecting results on surface. Oil slicks are not effective.Signature [Signature] Date: 7/11/89 Time: 1500Printed Name [Signature]

Recommendation to a work team and to assess this area
3 COPY EXXON ADEC FOSC ISCC

(version 5/24/89)

SHORELINE PRE-CLEANUP ASSESSMENT BLOCK REPORT

Location (see enclosed map): ELEANOR ISLAND EAST BLOCK

Includes Shoreline Segments: EL-104, EL-105, EL-106, EL-107,
EL-108, EL-109, EL-110

Submitted : H.A. May Date: 6/4/89
(for Exxon)

ISCC Recommendation Approval: Sharon K. Christopher Date: 6/10/89

FOSC Approval: A.C. Alexander, by dir. Date: 6-11-89

The cleanup procedures identified in the Shoreline Cleanup Program are recommended. Modifications to these systems can be made in the field. Exxon and other field personnel are encouraged to suggest innovations and productivity enhancements to the OSC's on-scene representative. The OSC's representative has the authority to approve on-site modifications. The Field Resource Team should be consulted if these actions do not fit within the Ecological Constraints of the Shoreline Cleanup Program. Requirements for safety and the protection of cultural material must be observed.

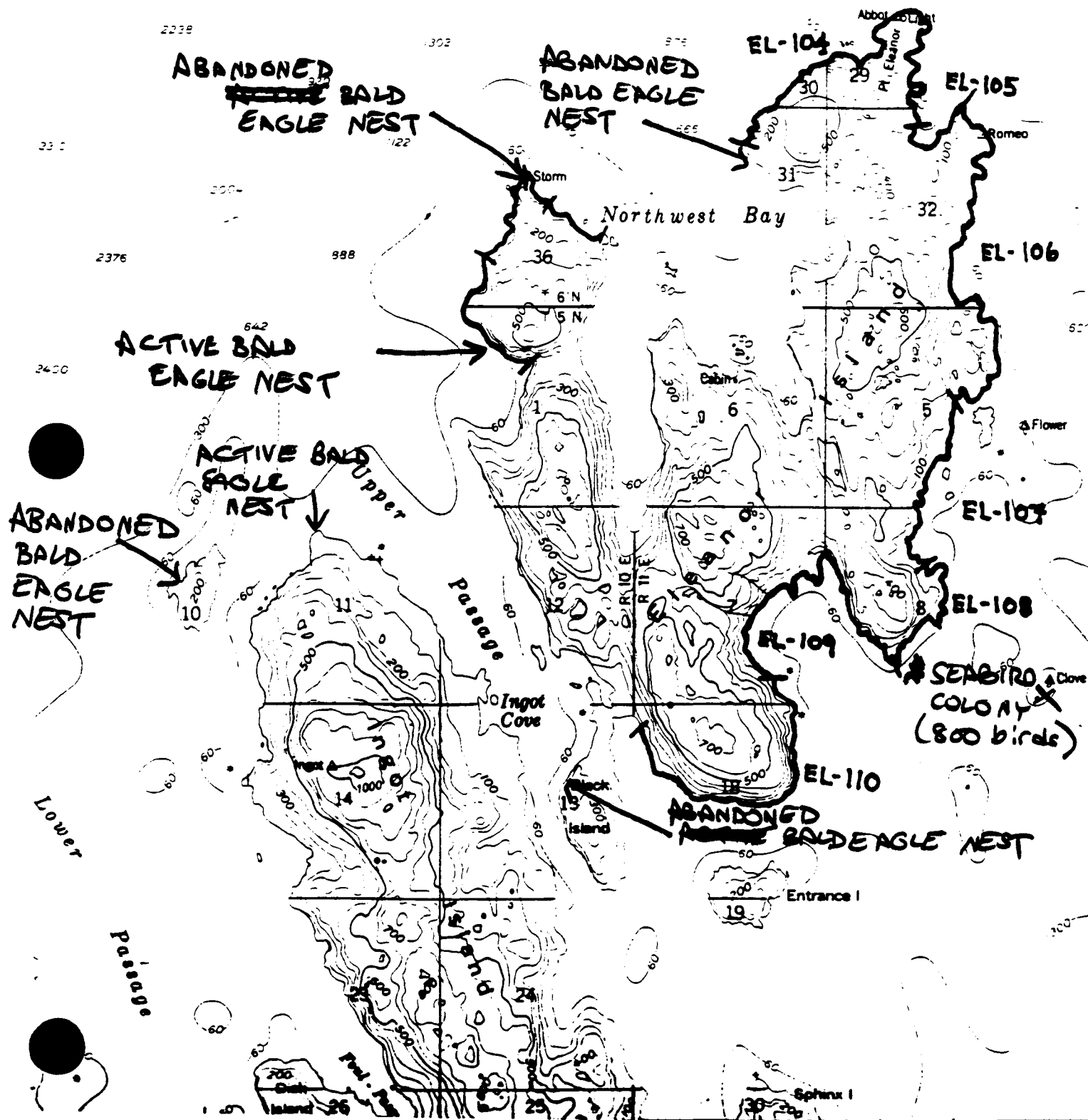
Distribution:

Exxon Shoreline Coordinator
Exxon Shoreline Supervisor
Exxon SCAT file

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USDA (FS)
USFW
A.DEC
A.FG
A.DNR
CAC
PWSCA
USFS
SHPO

ELEANOR ISLAND EAST BLOCK
 EL-104, EL-105, EL-106, EL-107,
 EL-108, EL-109, EL-110

6/6/89
 6/9/89



(version 6/04/89)

SHORELINE CLEANUP PROGRAM

DATE 6/02/89

SHORELINE SEGMENT EL-104

LOCATION: (see enclosed map) Eleanor Island-Northeast tip,
vicinity of Abbot Light

ADEC NO. _____ SHORELINE ASSESSMENT DATE: _____

Recommended Cleanup Activity(ies):

- Use appropriate methods for cleaning headlands and straights where heavily oiled. (See attached map for locations of oil.)
- No cleanup recommended on unoiled headlands and straights. *at this time*
- No cleanup recommended on beach where oil consists of a light stain and cleanup may harm healthy biota intertidal.

Priorities Considerations:

Class 3B

Ecological Constraints (from site survey): Except for the small cove near Abbot Light, cleanup is likely to do more harm than good, most of this segment is healthy looking intertidal.

Archeological Constraints (from site survey):

If heretofore undiscovered cultural materials are uncovered during cleanup, contact Exxon's Archeological Field Director and take actions prescribed in the Operational Guidelines for Shoreline Cleanup dated 4/21/89 as amended.

Charles E. Adams
State Historic Preservation Officer *

Date: June 4, 1989

ISCC: Sharon K. Christopher

Date: 6-10-89

EXXON: [Signature]

Date: June 10 -89

FOSC: A.C. Alejandro, by dei.

Date: 6-11-89

* Signature required to satisfy stipulations in Alaska DNR land use permits for tide and submerged lands.

SHORELINE OIL EVALUATION

Date: 5/28/89 Time: 1415-1530

Observer: C. Dillon

Surveyed From: Foot/Boat/Helio/Plane

Weather: Sun/Cloud/Rain/Snow/Fog

LOCATION

LOCATION ELEANOR ISLAND SEGMENT NUMBER EL-104

LENGTH OF SHORELINE SEGMENT: 4300 m

ACCESS: Foot/Vehicle/Boat/Barge/Helio/Float Plane

SHORELINE:

Shoreline Type: SPI/BEA/COV/HLD/STRT Slope: LANG/HANG/VER

Wave Exposure: High/Med/Low

Sediment: B 5 % / C % / P <1 % / G % / S % / M % / R 95 %

Drift Debris on Beach: Yes/No Supra/Upper/Mid/Lower Type algae

OIL

Degree of Oiling: Heavy/Moderate/Light/No Oil/Unobserved

Area of Beach Impact: SU / SP / H / M / L

Continuous: Y/N % of Segment 10-15 Width of Band: 2-4 m

Sporadic: Y/N % of Segment 5

Est. Oil Thickness where > 1cm: <1 cm Est. Oil Penetration: 0 cm

Pooled Oil: 0 % "Free" Oil: 0 % Coated: H 100 % / M % / L <1 %

Fresh 75 % Mousse 25 % Tar Formation: %

Drift Debris Oiled ? Yes/No Supra/Upper/Mid/Lower Amount: H/M/L/

Comments:

Segment is entirely headlands, vertical straight and boulder pockets. The majority of the segment is unoiled with a few spots of light residual stain, non-recoverable. A shallow cove in the middle of the segment is heavily oiled by a 2-3 m wide continuous band except for the small beach of pebbles and boulders (shown on map). The last 50-60 m at the westernmost end of the segment also has a 2-3 m wide heavy oil band at the mid-high tide levels.

ECOLOGICAL EVALUATION

LOCATION: ELEPHANT IS. SITE: _____ OBSERVER: AE JAHN
 LOCATION PREFIX: EL SEG. NO.: E2-104 LENGTH: 4300 (M)
 DATE: 5/28/89 TIME (HHMM): 1430-1530 TIDE HT.: 1-2 ft. (M)

OILED ZONE: (Splash) High Medium Low

SUBSTRATUM: (Rocks Boulder Cobble Gravel Sand Mud

LIVE BIOTA

Fucus (algae): Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N

Diverse Flora

Mytilus (Mussels): Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/

Balanus (Barnacles): Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/

Littorina

Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N

Seen occasionally - we could land at only a single, very small (5m) beach

Limpets: Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N

as for Littorina - hard to say - most of segment viewed from skiff

OTHER OBSERVATIONS: Cushion stars, Pisaster, chitons (Katharina) evident in passing

CLEANUP PRECAUTIONS: cold water only

MAMMALS: Otters _____ Harbor Seals _____ Sea Lions _____ Whales _____
 Other _____

BIRDS: Oyster Catchers and Gulls on ^{offshore} rocks near Abbot Light

GENERAL OBSERVATIONS: This segment was not heavily impacted, except for the
cove just south of Abbot Light + north of the small gravel beach.

(version of 4/29/89)

CULTURAL RESOURCE EVALUATION

Date 5/28/89 Location Eleonor Island Site _____

Location Prefix EL Segment # EL-104 Length 4300 m

Survey Method:

Air _____ (A - indicate on map) Boat ✓ BEACH (A - indicate on map)

Ground ✓ (G - indicate on map)

Known cultural resources (AHRS #) None Data Source None

Oil conditions/beach visibility good on gravel, but poor on boulders

Width of beach zone surveyed 5-10 m Tree fringe surveyed 10m

Cultural resources observed in beach zone (AHRS code) None

Cultural resources observed in tree fringe (AHRS code) None

General observations justifying survey method and segment's site probability:

Shore Profile moderate sloped beach, remainder vertical walls and steep boulder/cobble fields.

Fresh Water Sources stream

Sea Exposure rock open

Access/Safety good on beach; poor on the rest

Probability of undiscovered sites in beach zone (circle one) 1 (2) 3 4 5

Monitoring during cleanup needed yes (no) Collection yes (no)

Photos: Color Roll # _____ Frames _____

B/W Roll # _____ Frames _____

Observer(s) C. Wilson

Time survey started 1415 Time survey ended 1530

Cultural resource considerations/restraints:

If heretofore undiscovered cultural resources are identified during cleanup contact Epou archaeologist, C. Mohley, immediately.

878

Abbot Light

Eleanor

FX-104

FX-104

666

Romeo

Northwest Bay

Cabin

60

500

700

6

60

500

60

32

004

31

200

500

100

110

200

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(version 6/04/89)

SHORELINE CLEANUP PROGRAM

DATE 6/2/89

SHORELINE SEGMENT EL-105

LOCATION: (see enclosed map) Eleanor Island (Northeast
tip between Abbot Light and Romeo)

ADEC NO. _____ SHORELINE ASSESSMENT DATE: 5/28/89

Recommended Cleanup Activity(ies):

- Manually collect oiled debris on beach 1.
- Use appropriate methods to remove pooled and free oil on beach 2.
- Flood/flush boulders, cobbles and rock with hot water/high pressure and pebbles and sand with hot water/low pressure, or use other appropriate cleaning methods.
- Use appropriate methods for cleaning oiled headlands with high wave exposure.

Priorities Considerations:

- Class 2 B. Area has high recreational use.

Ecological Constraints (from site survey):

- Avoid rock underhangs-Metridium is alive and won't withstand hot water jets. Protect uncontaminated lower intertidal zone during clean up operations.

Archeological Constraints (from site survey):

If heretofore undiscovered cultural materials are uncovered during cleanup, contact Exxon's Archeological Field Director and take actions prescribed in the Operational Guidelines for Shoreline Cleanup dated 4/21/89 as amended.

Charles E. Hume
State Historic Preservation Officer *

Date: June 4, 1989

ISCC: Sharon K Christopher

Date: 6-10-89

EXXON: Paul

Date: June 10 -89

FOSC: A. C. Alejandro, by dei.

Date: 6-11-89

* Signature required to satisfy stipulations in Alaska DNR land use permits for tide and submerged lands.

Date: 5/28/89 Time: 1300-1345

Observer: C. Dillon

Surveyed From: Foot/Boat/Helio/Plane

Weather: Sun/Cloud/Rain/Snow/Fog

LOCATION

LOCATION ELEANOR ISLAND

SEGMENT NUMBER EL-105 (Beach 1)

LENGTH OF SHORELINE ^{Beach} SEGMENT: 300 m for the beach (plus 150 m of oiled headlands to the North)

ACCESS: Foot/Vehicle/Boat/Barge/Helio/Float Plane

SHORELINE:

Shoreline Type: SPI/BEA/COV/HLD/STRT

Slope: LANG/HANG/VER

Wave Exposure: High/Med/Low

Sediment: B 5 % / C 70 % / P 15 % / G 2 % / S 5 % / M % / R 5 % (for beach only)

Drift Debris on Beach: Yes/No Supra/Upper/Mid/Lower Type logs/algae

OIL

Degree of Oiling: Heavy/Moderate/Light/No Oil/Unobserved

Area of Beach Impact: SU / SP / H / M / L

Continuous: Y/N % of Segment 90 Width of Band: 3-50 m

Sporadic: Y/N % of Segment

Est. Oil Thickness where > 1cm: < 1 cm Est. Oil Penetration: 0-210 cm

Pooled Oil: 0 % "Free" Oil: 0 % Coated: H 40 % / M 40 % / L 20 %

Fresh 90 % Mousse 10 % Tar Formation: %

Drift Debris Oiled ? Yes/No Supra/Upper/Mid/Lower Amount: H/M/L

Comments:

Refer to diagram for details.

Segment Consists of 2 beaches with headlands and straights at both ends for a total segment length of approximately 800 meters.

Beach 2 evaluated on next page.

SHORELINE OIL EVALUATION

Date: 5/28/89 Time: 1345-1415

Observer: C. Dillon

Surveyed From: Foot Boat/Helio/Plane

Weather: Sun/Cloud/Rain/Snow/Fog

LOCATION

LOCATION ELEANOR ISLAND

SEGMENT NUMBER EL-105 (Beach 2)

LENGTH OF SHORELINE ^{Beach} ~~SEGMENT~~: 100 m for beach 2 (plus about 250m for headlands to the Ea.

ACCESS: Foot/Vehicle/Boat/Barge/Helio/Float Plane

SHORELINE:

Shoreline Type: SPI/BEA/COV/HLD/STRT

Slope: LANG/HANG/VER

Wave Exposure: High/Med/Low

Sediment: B 5 % / C 45 % / P 20 % / G X % / S 10 % / M % / R 20 % (for beach only)

Drift Debris on Beach: Yes/No Supra/Upper/Mid/Lower Type logs

OIL

Degree of Oiling: Heavy/Moderate/Light/No Oil/Unobserved

Area of Beach Impact: SU / SP / H / M / L

Continuous: Y/N % of Segment 90 Width of Band: 50 m

Sporadic: Y/N % of Segment

Est. Oil Thickness where > 1cm: 2-4 cm Est. Oil Penetration: <3-7 cm

Pooled Oil: 5 % "Free" Oil: <1 % Coated: H 100 % / M % / L %

Fresh 90 % Mousse 10 % Tar Formation: %

Drift Debris Oiled ? Yes/No Supra/Upper/Mid/Lower Amount: H/M/L/

Comments:

Refer to diagram for details

⑤ 5/28/89 EL-105 1300-1345 Beach 1

Wx: Rain Survey: foot wave exp: high

access: bt/bg/helo/float plane.

stream

moderat / 1.

57.5

5% R / 5% B / 5% P / 70%

L-IT2 light coat, no p.

M-4 ITZ med coat, per 10

UNDAILED

stream

Oil covers 75% of beach

10% mousse / baked, dry coat

Loc Penetration on pebbles/sand

UIT2, little hair in heavy coat

U-STZ oiled logs/algae

moderate amount

end Bericht

LANG

Part B

Black 2

EL-105 Beach 2 1345-1415

20% R / 5% B / 5% C / 20% P / 10% S

logS (united)	H
1.0	1.0
1.5	1.5
2.0	2.0
2.5	2.5
3.0	3.0
3.5	3.5
4.0	4.0
4.5	4.5
5.0	5.0
5.5	5.5
6.0	6.0
6.5	6.5
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76.5	

Headlands

~~Colobus~~
pebbles

heavy
→ 315 cm² m

2-4 C.V.V

Painted
increase

HANG Headlands

heavy, fresh coat

No oil ed ch. 1.00

5% pooled

1 obbles / sand
+ pebbles
13cm pen



50m 100m

UNOILED

INVOICE

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heavy coat
2/10 cm

Free and Fresh

HANG HEAD

ECOLOGICAL EVALUATION

LOCATION: ELEANOR IS SITE: _____ OBSERVER: A E. JAHN
 LOCATION PREFIX: EL SEG. NO.: EL-105 LENGTH: 800 (M)
 DATE: 5/28/89 TIME (HHMM): 13:45 TIDE HT.: 1 ft. (M)
 OILED ZONE: Splash High Medium Low
 SUBSTRATUM: Rocks Boulder Cobble Gravel Sand Mud

LIVE BIOTA

Fucus (algae): Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N

very little on central Beach - dense growth on east + west Park walls

Mytilus (Mussels): Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y,

abundant on rocky point on east side of bay (at Beach #2) - some on larger rocks
Beach #1

Balanus (Barnacles): Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y,

Littorina

Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N

Limpets: Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N

OTHER OBSERVATIONS: many dead mytilus at Beach #2 in HTZ, Healthy looking
Fucus community in LTZ along entire segment.

CLEANUP PRECAUTIONS: Beach #2 area can be cleaned without adverse
effects - the rest of segment should be worked at high tide or with cold water
(Live Metridium on rock underhangs will not survive hot water jets)

MAMMALS: Otters _____ Harbor Seals _____ Sea Lions _____ Whales _____
 Other none

BIRDS: _____

GENERAL OBSERVATIONS: Rocky Pt. on eastern shore should be cleaned - there
was much floating oil in this bay also - possibly due to heavy rainfall during
today's rain

(version of 4/29/89)

CULTURAL RESOURCE EVALUATION

Date 5/24/89 Location Eleanor Island Site _____

Location Prefix EL Segment # EL-105 Length 800m

Survey Method:

Air _____ (A - indicate on map) Boat ☒ THE REST (A - indicate on map)

Ground ☒ BEACHES (G - indicate on map)

Known cultural resources (AHRS #) None Data Source None

Oil conditions/beach visibility moderate

Width of beach zone surveyed 5-15 m Tree fringe surveyed 10m

Cultural resources observed in beach zone (AHRS code) None

Cultural resources observed in tree fringe (AHRS code) None

General observations justifying survey method and segment's site probability:

Shore Profile beaches moderate slope, one gravel, one cobble/boulder

Fresh Water Sources two streams - one on each beach

Sea Exposure north/northwest

Access/Safety good

Probability of undiscovered sites in beach zone (circle one) 1 (2) 3 4 5

Monitoring during cleanup needed yes (no) Collection yes (no)

Photos: Color Roll # _____ Frames _____

B/W Roll # _____ Frames _____

Observer(s) C. Wilson

Time survey started 1300 Time survey ended 1415

Cultural resource considerations/restraints:

If heretofore undiscovered cultural resources are discovered during cleanup notify Epou archaologist, C. Mobley, immediately.

876

Abbot Light

Eleanor

El Estero

Romeo

666

Northwest Bay

60

Cabin

300

6

500

700

4

31

32

500

400

300

200

100

60

50

40

30

20

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0

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(version 6/04/89)

SHORELINE CLEANUP PROGRAM

DATE 6/2/89

SHORELINE SEGMENT EL-106

LOCATION: (see enclosed map) Eleanor Island
(East Side) North

ADEC NO. _____ SHORELINE ASSESSMENT DATE: 5/29/89

Recommended Cleanup Activity(ies):

- Use appropriate means to remove pooled and free oil.
- Flood/flush boulders, cobbles and rocks on beaches with hot water/high pressure and pebbles and sand with hot water/low pressure, or use other appropriate cleaning methods.
- Use appropriate methods for cleaning heavily oiled straights blocked by surrounding and/or submerged rocks.

Priorities Considerations:

Class 2 A

Ecological Constraints (from site survey):

- Stay off reef at beach #3 protect with booms. Protect uncontaminated intertidal zones during clean-up operations

Archeological Constraints (from site survey):

No access to uplands allowed. If heretofore undiscovered cultural materials are uncovered during cleanup, contact Exxon's Archeological Field Director and take actions prescribed in the Operational Guidelines for Shoreline Cleanup dated 4/21/89 as amended.

Charles E. Hume
State Historic Preservation Officer *

Date: June 4, 1989

ISCC: Sharon K. Christopher

Date: 6-10-89

EXXON: [Signature]

Date: June 10 - 89

FOSC: A.C. Alexander, by dir.

Date: 6-11-89

* Signature required to satisfy stipulations in Alaska DNR land use permits for tide and submerged lands.

SHORELINE OIL EVALUATION

Date: 5/29/89 Time: 1200-1520

Observer: C. Dillon

Surveyed From: Foot/Boat/Helio/Plane

Weather: Sun/Cloud/Rain/Snow/Fog

LOCATION

LOCATION ELEANOR ISLAND

SEGMENT NUMBER EL-106 (General)

LENGTH OF SHORELINE SEGMENT: 4700 m (total length including island)

ACCESS: Foot/Vehicle/Boat/Barge/Helio/Float Plane

SHORELINE:

Shoreline Type: SPI/BEA/COV/HLD/STRT

Slope: LANG/HANG/VER

Wave Exposure: High/Med/Low

Sediment: B 5% / C 5% / P 5% / G ___% / S ___% / M ___% / R 85%

Drift Debris on Beach: Yes/No Supra/Upper/Mid/Lower Type logs/algae/boom

OIL

Degree of Oiling: Heavy/Moderate/Light/No Oil/Unobserved

Area of Beach Impact: SU / SP / H / M / L

Continuous: Y/N % of Segment 50 Width of Band: 1-60 m

Sporadic: Y/N % of Segment 25

Est. Oil Thickness where > 1cm: 2-6 cm Est. Oil Penetration: 0-220 cm

Pooled Oil: 1% "Free" Oil: ___% Coated: H 75% / M ___% / L 25%

Fresh 10% Mousse 70% Tar Formation: 20%

Drift Debris Oiled? Yes/No Supra/Upper/Mid/Lower Amount: H/M/L/

Comments:

This is a general segment evaluation. Segment consists of mostly headlands and vertical/high angle straights with 4 beaches and an island at the final 25% of the segment. The majority of headlands/straights were unoiled with sporadic 1-2m wide bands of residual stain (non-recoverable). Headlands indicated with → on the attached map are heavily oiled but in most cases they are blocked by surrounding and/or submerged rocks making access for anything other than a small boat or skiff difficult. Beaches are evaluated separately on the following forms.

SHORELINE OIL EVALUATION

Date: 5/29/89 Time: 1240-1330

Observer: C. Dillon

Surveyed From: Foot/Boat/Helio/Plane

Weather: Sun/Cloud/Rain/Snow/Fog

LOCATION

LOCATION ELEANOR ISLAND

SEGMENT NUMBER EL-106 (Beach 1)

LENGTH OF SHORELINE ^{Beach} SEGMENT: 175 m

ACCESS: Foot/Vehicle/Boat/Barge/Helio/Float Plane

SHORELINE:

Shoreline Type: SPI/BEA/COV/HLD/STRT

Slope: LANG/HANG/VER

Wave Exposure: High/Med/Low

Sediment: B 15 % / C 50 % / P 20 % / G X % / S 5 % / M % / R 10 %

Drift Debris on Beach: Yes/No

Supra/Upper/Mid/Lower Type logs/algae
absorbent boom

OIL

Degree of Oiling: Heavy/Moderate/Light/No Oil/Unobserved

Area of Beach Impact: SU / SP / H / M / L

Continuous: Y/N % of ^{Beach} Segment 100 Width of Band: 50 m

Sporadic: Y/N % of Segment

Est. Oil Thickness where > 1cm: 4-6 cm Est. Oil Penetration: >20 cm

Pooled Oil: 5 % "Free" Oil: % Coated: H 95 % / M % / L %

Fresh % Mousse 75 % Tar Formation: 25 %

Drift Debris Oiled ? Yes/No Supra/Upper/Mid/Lower Amount: H/M/L/

Comments:

Refer to diagram for details.

SHORELINE OIL EVALUATION

Date: 5/29/89 Time: 1335-1400

Observer: C. Dillo

Surveyed From: Foot/Boat/Helio/Plane

Weather: Sun/Cloud/Rain/Snow/Fog

LOCATION

LOCATION ELEANOR ISLAND SEGMENT NUMBER EL-106 (Beach 2)

LENGTH OF SHORELINE ^{Beach} SEGMENT: 50 m

ACCESS: Foot/Vehicle/Boat/Barge/Helio/Float Plane

SHORELINE:

Shoreline Type: SPI/BEA/COV/HLD/STRT Slope: LANG/HANG/VER

Wave Exposure: High/Med/Low

Sediment: B60% / C30% / P5% / G___% / S___% / M___% / R5%

Drift Debris on Beach: Yes/No Supra/Upper/Mid/Lower Type logs/algae

OIL

Degree of Oiling: Heavy/Moderate/Light/No Oil/Unobserved

Area of Beach Impact: SU / SP / H / M / L

Continuous: Y/N % of Segment 100 Width of Band: 50 m

Sporadic: Y/N % of Segment _____

Est. Oil Thickness where > 1cm: 2-6 cm Est. Oil Penetration: >8 cm

Pooled Oil: 5% "Free" Oil: _____% Coated: H95% / M___% / L___%

Fresh _____% Mousse 90% Tar Formation: 10%

Drift Debris Oiled? Yes/No Supra/Upper/Mid/Lower Amount: H/M/L/

Comments:

Refer to diagram for details.

SHORELINE OIL EVALUATION

Date: 5/29/89 Time: 1400-1415

Observer: C. Dillon

Surveyed From: Foot/Boat/Helio/Plane

Weather: Sun/Cloud/Rain/Snow/Fog

LOCATION

LOCATION ELEANOR ISLAND

SEGMENT NUMBER EL-106 (Beach 3)

LENGTH OF SHORELINE ^{Beach} SEGMENT: 50 m

ACCESS: Foot/Vehicle/Boat/Barge/Helio/Float Plane

SHORELINE:

Shoreline Type: SPI/BEA/COV/HLD/STRT

Slope: LANG/HANG/VER

Wave Exposure: High/Med/Low

Sediment: B/100% / C___% / P___% / G___% / S___% / M___% / R___%

Drift Debris on Beach: Yes/No Supra/Upper/Mid/Lower Type logs

OIL

Degree of Oiling: Heavy/Moderate/Light/No Oil/Unobserved

Area of Beach Impact: SU / SP / H / M / L

Continuous: Y/N % of Segment 100 Width of Band: 50 m

Sporadic: Y/N % of Segment _____

Est. Oil Thickness where > 1cm: <1 cm Est. Oil Penetration: None cm

Pooled Oil: 0% "Free" Oil: 45% Coated: H 95% / M___% / L___%

Fresh 100% Mousse 0% Tar Formation: 0%

Drift Debris Oiled? Yes/No Supra/Upper/Mid/Lower Amount: H/M/L/

Comments:

Beach is surrounded by low angle headlands
and submerged rocks. Access very difficult, even
for a skiff.

SHORELINE OIL EVALUATION

Date: 5/29/89 Time: 1455-1520

Observer: C. Dillon

Surveyed From: Foot/Boat/Helio/Plane

Weather: Sun/Cloud/Rain/Snow/Fog

LOCATION

LOCATION ELEANOR ISLAND

SEGMENT NUMBER EL-106 (Beach 4)

LENGTH OF SHORELINE ^{Beach} SEGMENT: 70 m

ACCESS: Foot/Vehicle/Boat/Barge/Helio/Float Plane

SHORELINE:

Shoreline Type: SPI/BEA/COV/HLD/STRT

Slope: LANG/HANG/VER

Wave Exposure: High/Med/Low

Sediment: B 40 % / C 40 % / P 15 % / ~~G~~ % / S 5 % / M % / R %

Drift Debris on Beach: Yes/No

Supra/Upper/Mid/Lower Type logs/algae

OIL

Degree of Oiling: Heavy/Moderate/Light/No Oil/Unobserved

Area of Beach Impact: SU / SP / H / M / L

Continuous: Y/N % of Segment 90 Width of Band: 60 m

Sporadic: Y/N % of Segment

Est. Oil Thickness where > 1cm: <4 cm Est. Oil Penetration: >8 cm

Pooled Oil: 0 % "Free" Oil: 1 % Coated: H 80 % / M 10 % / L 10 %

Fresh % Mousse 80 % Tar Formation: 20 %

Drift Debris Oiled ? Yes/No Supra/Upper/Mid/Lower Amount: H/M/L

Comments:

Beach is mostly pebbles and small cobbles surrounded on both sides by low angle boulder slopes which are heavily oiled. There is a low energy, shallow and wide flowing runoff stream covering about 1/2 of the beach. The sediments within the stream are mostly pebbles and sand patches which are moderately coated in the M ITZ and lightly coated in the L ITZ. The U ITZ has a very heavy mousse coating on pebbles with >8cm penetration.

SHORELINE OIL EVALUATION

Date: 5/29/89 Time: 1415-1450

Observer: C. Dillon

Surveyed From: Foot/Boat/Helio/Plane

Weather: Sun/Cloud/Rain/Snow/Fog

LOCATION

LOCATION ELEANOR ISLAND

SEGMENT NUMBER EL-106 (ISLAND)

LENGTH OF SHORELINE ^{Island} SEGMENT: 750 m

ACCESS: Foot/Vehicle/Boat/Barge/Helio/Float Plane

SHORELINE:

Shoreline Type: SPI/BEA/COV/HLD/STRT

Slope: LANG/HANG/VER

Wave Exposure: High/Med/Low

Sediment: B 10 % / C 5 % / P 5 % / G % / S % / M % / R 80 %

Drift Debris on Beach: Yes/No Supra/Upper/Mid/Lower Type logs

OIL

Degree of Oiling: Heavy/Moderate/Light/No Oil/Unobserved

Area of Beach Impact: SU / SP / H / M / L

Continuous: Y/N % of Segment 100 Width of Band: 3-10 m

Sporadic: Y/N % of Segment

Est. Oil Thickness where > 1cm: <1 cm Est. Oil Penetration: <4 cm

Pooled Oil: 0 % "Free" Oil: 0 % Coated: H 75 % / M 25 % / L %

Fresh 50 % Mousse 20 % Tar Formation: 30 %

Drift Debris Oiled ? Yes/No Supra/Upper/Mid/Lower Amount: H/M/L/

Comments:

Mid - high tide level has a 3m wide continuous band of moderate and heavy oil. There are 3 pocket beaches of boulder/cobble (some pebble) sediments 10m wide oil band on the mid-upper ITZ.

1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 26

ECOLOGICAL EVALUATION

LOCATION: ELEANOR IS SITE: _____ OBSERVER: A. E. JAHN
 LOCATION PREFIX: EL SEG. NO.: EL-106 LENGTH: 4700 (M)
 DATE: 5/29/89 TIME (HHMM): 1200-1520 TIDE HT.: 2-3ft (M)
 OILED ZONE: Splash High Medium Low Beach #4
 SUBSTRATUM: Rocks Boulder Cobble Gravel Sand Mud

LIVE BIOTA

Fucus (algae): Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N
except beacles, which are a small proportion of the segment
Mytilus (Mussels): Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/
nearly continuous band about 1/2 m wide along upper Tidal Zone; patchy on rock outcrops
on beacles
Balanus (Barnacles): Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/
dense growth among algae below mussel band

Littorina

Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N

Limpets: Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N

OTHER OBSERVATIONS: most of segment viewed from skiff, making small animals
hard to see. Walked reef guarding Beach #3- it is very diverse, with Fucus, turf algae,
bryozoans, anemones, several spp. limpets, chitons, Siphonaria, tube worms, shrimp, starfish, topped by
a mussel bed.

CLEANUP PRECAUTIONS: Avoid bedrock tidepools on Beach #1, and Reef off
Beach #3.

MAMMALS: Otters _____ Harbor Seals _____ Sea Lions _____ Whales _____
 Other _____

BIRDS: _____

GENERAL OBSERVATIONS: _____

(version of 4/29/89)

CULTURAL RESOURCE EVALUATION

Date 5/29/89 Location Eleaun Island Site _____

Location Prefix EL Segment # EL-106 Length 4700m

Survey Method:

Air _____ (A - indicate on map) Boat ✓ THE RES. (A - indicate on map)

Ground ✓ BEACHES (G - indicate on map)

Known cultural resources (AHRS #) None Data Source None

Oil conditions/beach visibility mostly heavily oiled

Width of beach zone surveyed 10-30m Tree fringe surveyed 10

Cultural resources observed in beach zone (AHRS code) None

Cultural resources observed in tree fringe (AHRS code) None RKS(2), CBN

General observations justifying survey method and segment's site probability: ^{FRC}

Shore Profile 2 beaches gravel/cobble; 2 beaches boulder

Fresh Water Sources none

Sea Exposure east to east southeast

Access/Safety beaches of boulder are not safe to walk on

Probability of undiscovered sites in beach zone (circle one) 1 (2) 3 (4) 5

Monitoring during cleanup needed *yes no ^{access prohibition judged sufficient to} Collection yes no ^{resource mobility}

Photos: Color Roll # CM-C1- Frames 2, 3

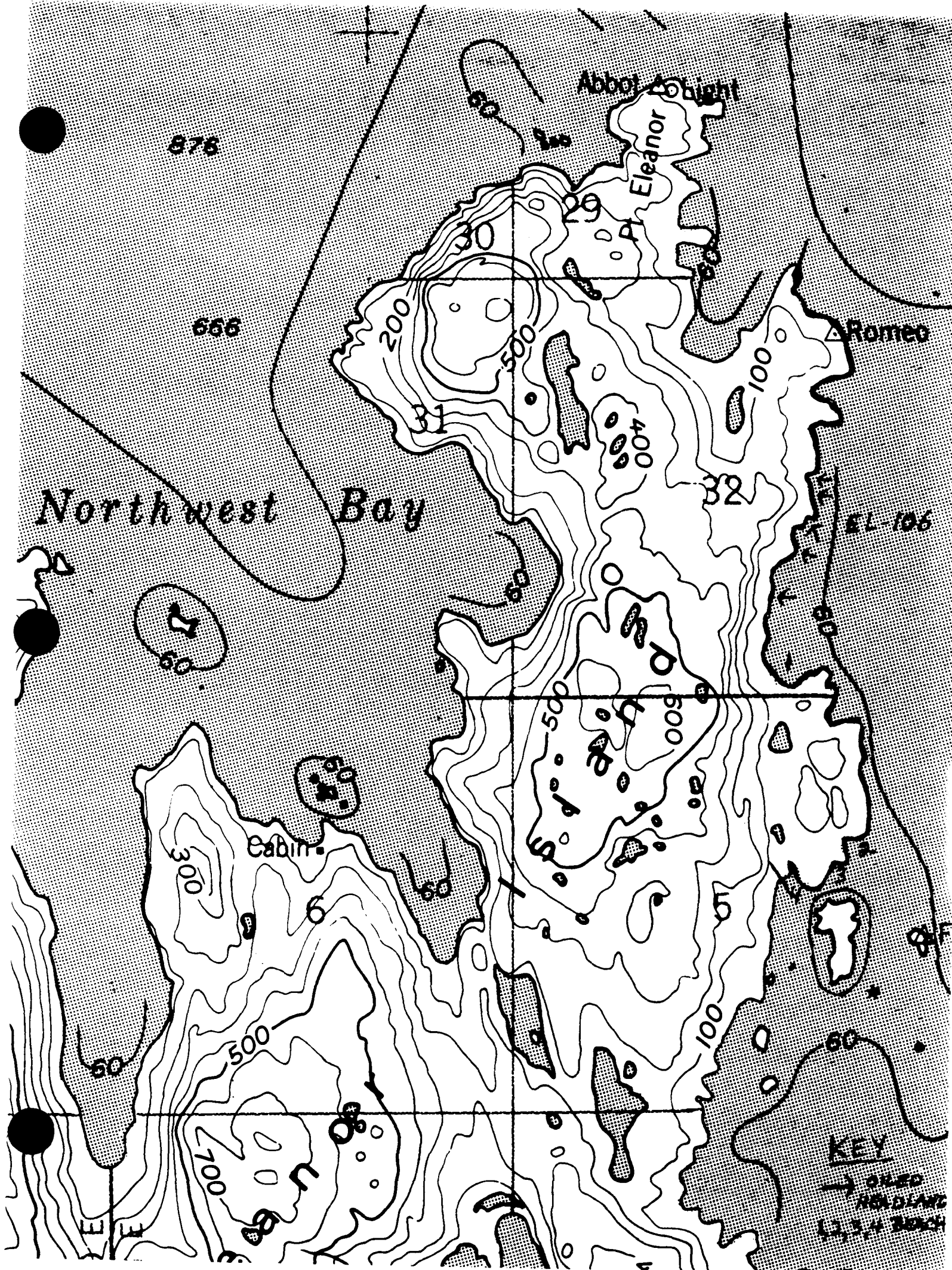
B/W Roll # _____ Frames _____

Observer(s) C. Wilson

Time survey started 1200 Time survey ended 1520

Cultural resource considerations/restraints:

If heretofore undiscovered cultural materials are
discovered during cleanup contact Byron archaeologist
C. Mobley immediately. The usual restriction of uplands access
should be particularly enforced on beach zone if it is not
3 FOR BEACH 4 possible to monitor the site
2 FOR THE REST



(version 6/04/89)

SHORELINE CLEANUP PROGRAM

DATE 6/2/89

SHORELINE SEGMENT EL-107

LOCATION: (see enclosed map) Eleanor Island (East Side)
Middle

ADEC NO. _____ SHORELINE ASSESSMENT DATE: 5/29/89

Recommended Cleanup Activity(ies):

- Manually remove oiled debris on beaches.
- Use appropriate methods to remove pooled and free oil.
- Flood/flush rocks and headlands with hot water/high pressure and pebbles with hot water/low pressure, or use other appropriate cleaning methods.

Priorities Considerations:

- Class 2 A

Ecological Constraints (from site survey):

~~Avoid vicinity of seal haulout.~~ ^{Note} Seal haulout areas on islands immediately off beach segment. Try to minimize disturbance.

Archeological Constraints (from site survey):

If heretofore undiscovered cultural materials are uncovered during cleanup, contact Exxon's Archeological Field Director and take actions prescribed in the Operational Guidelines for Shoreline Cleanup dated 4/21/89 as amended.

Charles Z. Holmes
State Historic Preservation Officer *

Date: June 4, 1989

ISCC: Sharon K. Christopherson

Date: 6-10-89

EXXON: Real

Date: June 10 - 89

FOSC: A.P. Alejandro

Date: 6-11-89

* Signature required to satisfy stipulations in Alaska DNR land use permits for tide and submerged lands.

SHORELINE OIL EVALUATION

Date: 5/29/89 Time: 1530-1645

Observer: C. Dillon

Surveyed From: Foot/Boat/Helio/Plane

Weather: Sun/Cloud/Rain/Snow/Fog

LOCATION

LOCATION ELEANOR ISLAND

SEGMENT NUMBER EL-107 (General)

LENGTH OF SHORELINE SEGMENT: 1900 m

ACCESS: Foot/Vehicle/Boat/Barge/Helio/Float Plane

SHORELINE:

Shoreline Type: SPI/BEA/COV/HLD/STRT

Slope: LANG/HANG/VER

Wave Exposure: High/Med/Low

Sediment: B^{<5} % / C^{<5} % / P^{<5} % / G % / S % / M % / R 95 %

Drift Debris on Beach: Yes/No Supra/Upper/Mid/Lower Type logs/algae

OIL

Degree of Oiling: Heavy/Moderate/Light/No Oil/Unobserved

Area of Beach Impact: SU / SP / H / M / L

Continuous: (Y/N) % of Segment 50

Width of Band: 1-2 m
5-15 on beaches
on headlands/straits
10m on boulder slopes

Sporadic: (Y/N) % of Segment 25

Est. Oil Thickness where > 1cm: 4 cm Est. Oil Penetration: <4-10 cm

Pooled Oil: 1 % "Free" Oil: 0 % Coated: H 65 % / M 10 % / L 25 %

Fresh 25 % Mousse 75 % Tar Formation: %

Drift Debris Oiled ? (Yes/No) Supra/Upper/Mid/Lower Amount: (H/M/L/)

Comments:

Beginning 1700m of segment consists of headlands and vertical/high angle straights. 1-2m wide heavy oil band is continuous along majority of first 1000m. 500m of headlands just before Beach 1 are lightly oiled. 2 Beaches at end of segment are evaluated separately on the following forms.

SHORELINE OIL EVALUATION

Date: 5/29/89 Time: 1600-1630

Observer: C. D. 1/02

Surveyed From: Foot/Boat/Helio/Plane

Weather: Sun/Cloud/Rain/Snow/Fog

LOCATION

LOCATION ELEANOR ISLAND

SEGMENT NUMBER EL-107 (Beach 1)

LENGTH OF SHORELINE ^{Beach} SEGMENT: 80 m

ACCESS: Foot/Vehicle/Boat/Barge/Helio/Float Plane

SHORELINE:

Shoreline Type: SPI/BEA/COV/HLD/STRT

Slope: LANG/HANG/VER

Wave Exposure: High/Med/Low

Sediment: B 30% / C 45% / P 20% / G ___% / S ___% / M ___% / R 5%

Drift Debris on Beach: Yes/No

Supra/Upper/Mid/Lower Type logs/algae

OIL

Degree of Oiling: Heavy/Moderate/Light/No Oil/Unobserved

Area of Beach Impact: SU / SP / H / M / L

Continuous: Y/N % of Segment 100 Width of Band: 20 m

Sporadic: Y/N % of Segment _____

Est. Oil Thickness where > 1cm: 4 cm Est. Oil Penetration: <4-10 cm

Pooled Oil: 5% "Free" Oil: 0% Coated: H 95% / M ___% / L ___%

Fresh ___% Mousse 60% Tar Formation: 40%

Drift Debris Oiled? Yes/No Supra/Upper/Mid/Lower Amount: H/M/L/

Comments:

Refer to diagram for details

SHORELINE OIL EVALUATION

Date: 5/29/89 Time: 1630-1645

Observer: C. Dillor

Surveyed From: Foot/Boat/Helio/Plane

Weather: Sun/Cloud/Rain/Snow/Fog

LOCATION

LOCATION ELEANOR ISLAND

SEGMENT NUMBER EL-107 (Beach 2)

LENGTH OF SHORELINE ^{Beach} SEGMENT: 100 m

ACCESS: Foot/Vehicle/Boat/Barge/Helio/Float Plane

SHORELINE:

Shoreline Type: SPI/BEA/COV/HLD/STRT

Slope: LANG/HANG/VER

Wave Exposure: High/Med/Low

Sediment: B20% / C10% / P60% / G10% / S0% / M0% / R0%

Drift Debris on Beach: Yes/No

Supra/Upper/Mid/Lower Type logs/algae
wrecked boat

OIL

Degree of Oiling: Heavy/Moderate/Light/No Oil/Unobserved

Area of Beach Impact: SU / SP / H / M / L

Continuous: Y/N % of Segment 100 Width of Band: 2-5 m

Sporadic: Y/N % of Segment

Est. Oil Thickness where > 1cm: <1 cm Est. Oil Penetration: 0-10 cm

Pooled Oil: 0% "Free" Oil: 0% Coated: H 10% / M 30% / L 60%

Fresh % Mousse 50% Tar Formation: 50%

Drift Debris Oiled? Yes/No Supra/Upper/Mid/Lower Amount: H/M/L

Comments:

L ITZ Light to unoiled

M ITZ light to moderate oil.

U ITZ heavy oil band with deep penetration through pebbles and some oiled debris.

Refer to diagram for details.

EL-107 Beach-1 1600-1630

(70)

N

VERT ↑

logs (united)

HANG

Survey foot wx: rain
Access bt/ft plane
wave cap. med/high

30% B/45% C/20% P/5% R

Boulders

Stream

Cobbles

(some of the lower ITZ is oiled)

(L) M-U ITZ heavy mousse

60% mousse coating

40% tar coating

Moderate amount oiled debris

pebble penetration 4-10cm

mossed algae
and logs

30% B/45% C/20% P/5% R

Pebbles

Cobbles

logs

5% pools/free oil
penetration 0-10cm

70m x 20m

Boulders

+ cobbles

HANG

pooled
mousse

③ EL-167 Beach 2 1630-1645

wrecked
boat

Cobbles / Pebbles

Cobbles / Pebbles / sand
Boulders

algae / moss

VERT

HANG

↑
IN

m-UITZ moderate
Coating 50% mousse
50% tar
penetration of UITZ
pebbles 10 cm

LITZ light coat
< 4 cm penetration
to no penetration

Low amount oiled algae

20% B / 10% C / 60% P / 10% S

access: bt / bg / helo / ft pr.

wave exp: high

no free / pooled oil

60% L / 30% M / 10% H coat

20% mousse / 80% Tar
stain

LANG

Cleanup: manually pick up debris
and moussed / tarred pebbles of UITZ / HANG

ECOLOGICAL EVALUATION

LOCATION: ELEANOR IS. SITE: _____ OBSERVER: A. E. JAHN
 LOCATION PREFIX: EL SEG. NO.: EL-107 LENGTH: 1900 (M)
 DATE: 5/29/89 TIME (HHMM): 1520-1645 TIDE HT.: 1.5 ft. (M)

OILED ZONE: Splash High Medium Low

SUBSTRATUM: Rocks Boulder Cobble Gravel Sand Mud

LIVE BIOTA

Fucus (algae): Patchy Y/N Contin. (Y)/N Dense Y/N Sparse Y/N None Y/N

except beaches

Mytilus (Mussels): Patchy Y/N Contin. (Y)/N Dense Y/N Sparse Y/N None Y/

same as segment 106

Balanus (Barnacles): Patchy Y/N Contin. (Y)/N Dense Y/N Sparse Y/N None Y/

patchy near protected beaches

Littorina

Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N

common around tide pool area, Beach #1

Limpets: Patchy (Y)/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N

OTHER OBSERVATIONS: _____

CLEANUP PRECAUTIONS: none - except to avoid probable
seal haul-out on

MAMMALS: Otters _____ Harbor Seals 15+ Sea Lions _____ Whales _____
 Other _____

BIRDS: 1 pair of eagles, gulls abundant on far-offshore rocks.

GENERAL OBSERVATIONS: Beach #1 only, 70-80 m walkable - this beach area

in need of cleaning, including the tide pool area at Beach #1

Beach #2 is mostly pebble - appears to be self-cleaning. Most of this segment is exposed rocky cliff + offshore rocks.

(version of 4/29/89)

CULTURAL RESOURCE EVALUATION

Date 5/29/89 Location Eleanor Island Site _____

Location Prefix EL Segment # EL-107 Length 1900

Survey Method:

Air _____ (A - indicate on map) Boat THE RES (A - indicate on map)

Ground 2 BEACHES (G - indicate on map)

Known cultural resources (AHRS #) None Data Source None

Oil conditions/beach visibility moderate to heavy

Width of beach zone surveyed 7-13 m Tree fringe surveyed 10m

Cultural resources observed in beach zone (AHRS code) None

Cultural resources observed in tree fringe (AHRS code) None

General observations justifying survey method and segment's site probability:

Shore Profile 1 beach boulder/cobble; 1 beach gravel; the rest vertical wall face and cobble/boulder fields.

Fresh Water Sources stream on beach

Sea Exposure northeast

Access/Safety beach of gravel good; the rest poor

Probability of undiscovered sites in beach zone (circle one) 1 (2) 3 4 5

Monitoring during cleanup needed yes (no) Collection yes (no)

Photos: Color Roll # _____ Frames _____

B/W Roll # _____ Frames _____

Observer(s) C. Wilson

Time survey started 1530 Time survey ended 1645

Cultural resource considerations/restraints:

If hereafter undiscovered cultural resources are discovered during cleanup notify Epou arch-aeologist, C. Mobley, immediately.

878

666

Northwest Bay

Abbot Light

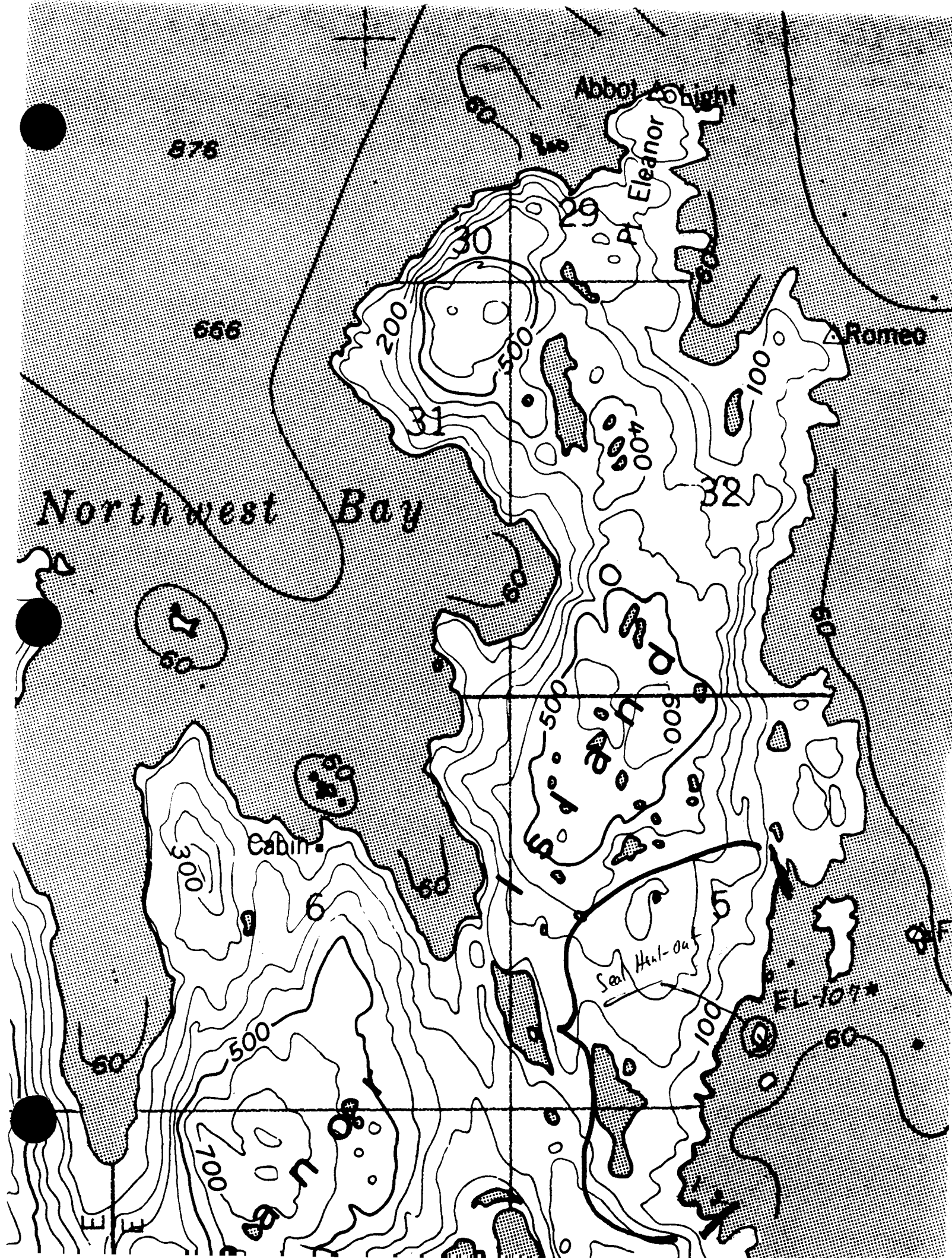
Eleanor

Romeo

Cabin

Sail Haul-out

EL-107



(version 6/04/89)

SHORELINE CLEANUP PROGRAM

DATE 6/2/89

SHORELINE SEGMENT EL-108

LOCATION: (see enclosed map) Eleanor Island

(East Side) South

ADEC NO. _____ SHORELINE ASSESSMENT DATE: 5/29/89

Recommended Cleanup Activity(ies):

- No cleanup recommended ^{at this time.} Only some residual staining and this beach has a high wave exposure.

Priorities Considerations:

- Class 4B

Ecological Constraints (from site survey): Seabird colony 1 mile off segment at Benchmark CLOVE. Recommend 1 mile buffer zone ~~- None~~ around colony where feasible. Restrict clean up boat traffic ~~as to~~ be as close as possible to Eleanor ^{Island} Shoreline. Follow additional seabird colony advisories in Shoreline Cleanup Manual.

Archeological Constraints (from site survey):

If heretofore undiscovered cultural materials are uncovered during cleanup, contact Exxon's Archeological Field Director and take actions prescribed in the Operational Guidelines for Shoreline Cleanup dated 4/21/89 as amended.

Charles E. Holmes
State Historic Preservation Officer *

Date: June 4, 1989

ISCC: Sharon K. Christopherson

Date: 6-10-89

EXXON: Beal

Date: June 10 - 89

FOSC: A. C. Alejandro, by dir.

Date: 6-11-89

* Signature required to satisfy stipulations in Alaska DNR land use permits for tide and submerged lands.

SHORELINE OIL EVALUATION

Date: 5/29/89 Time: 1645-1715

Observer: C. Dillon

Surveyed From: Foot/Boat/Helio/Plane

Weather: Sun/Cloud/Rain/Snow/Fog

LOCATION

LOCATION ELEANOR ISLAND SEGMENT NUMBER EL-108

LENGTH OF SHORELINE SEGMENT: 1500 m

ACCESS: Foot/Vehicle/Boat/Barge/Helio/Float Plane

SHORELINE:

Shoreline Type: SPI/BEA/COV/HLD/STRT

Slope: LANG/HANG/VER

Wave Exposure: High/Med/Low

Sediment: B 15 % / C ___ % / P ___ % / G ___ % / S ___ % / M ___ % / R 85 %

Drift Debris on Beach: Yes/No Supra/Upper/Mid/Lower Type _____

OIL

Degree of Oiling: Heavy/Moderate/Light/No Oil/Unobserved

Area of Beach Impact: SU / SP / H / M / L

Continuous: Y/N % of Segment _____ Width of Band: 1-2 m

Sporadic: Y/N % of Segment 25

Est. Oil Thickness where > 1cm: 0 cm Est. Oil Penetration: 0 cm

Pooled Oil: 0 % "Free" Oil: 0 % Coated: H ___ % / M ___ % / L 15 %

Fresh 0 % Mousse 0 % ^{Residual stain}
~~Tar Formation:~~ 100 %

Drift Debris Oiled ? Yes/No Supra/Upper/Mid/Lower Amount: H/M/L/

Comments:

All headlands / straights and steep boulder slopes. Mostly
uniled with a few short, sporadic patches of 1-2m
wide residual oil staining at mid to high tide level.

ECOLOGICAL EVALUATION

LOCATION: ELEANOR IS. SITE: _____ OBSERVER: A. E. JAHN
 LOCATION PREFIX: EL SEG. NO.: EL-108 LENGTH: 1500 (M)
 DATE: 5/29/89 TIME (HHMM): 1645-1715 TIDE HT.: 2-3 ft. (M)

OILED ZONE: Splash High Medium Low

SUBSTRATUM: Rocks Boulder Cobble Gravel Sand Mud

LIVE BIOTA

Fucus (algae): Patchy Y/N Contin. (Y)/N Dense Y/N Sparse Y/N None Y/N

Mytilus (Mussels): Patchy Y/N Contin. (Y)/N Dense Y/N Sparse Y/N None Y,
Same as segments 106 + 107

Balanus (Barnacles): Patchy Y/N Contin. (Y)/N Dense Y/N Sparse Y/N None Y,

Littorina

Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N

under algae?

Limpets: Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N

under algae?

OTHER OBSERVATIONS: entire segment viewed from skiff

CLEANUP PRECAUTIONS: none

MAMMALS: Otters _____ Harbor Seals few Sea Lions _____ Whales _____
 other _____

BIRDS: gulls

GENERAL OBSERVATIONS: no place to land skiff on this segment.
all east-facing rock

(version of 4/29/89)

CULTURAL RESOURCE EVALUATION

Date 5/29/89 Location Ellenor Island Site _____

Location Prefix EL Segment # EL-108 Length 1500

Survey Method:

Air _____ (A - indicate on map) Boat ✓ (A - indicate on map)

Ground _____ (G - indicate on map)

Known cultural resources (AHRS #) None Data Source None

Oil conditions/beach visibility moderate

Width of beach zone surveyed 0 m Tree fringe surveyed 0

Cultural resources observed in beach zone (AHRS code) None

Cultural resources observed in tree fringe (AHRS code) None

General observations justifying survey method and segment's site probability:

Shore Profile vertical wall face and steep boulder fields

Fresh Water Sources none

Sea Exposure open southeast

Access/Safety poor

Probability of undiscovered sites in beach zone (circle one) (1) 2 3 4 5

Monitoring during cleanup needed yes (no) Collection yes (no)

Photos: Color Roll # _____ Frames _____

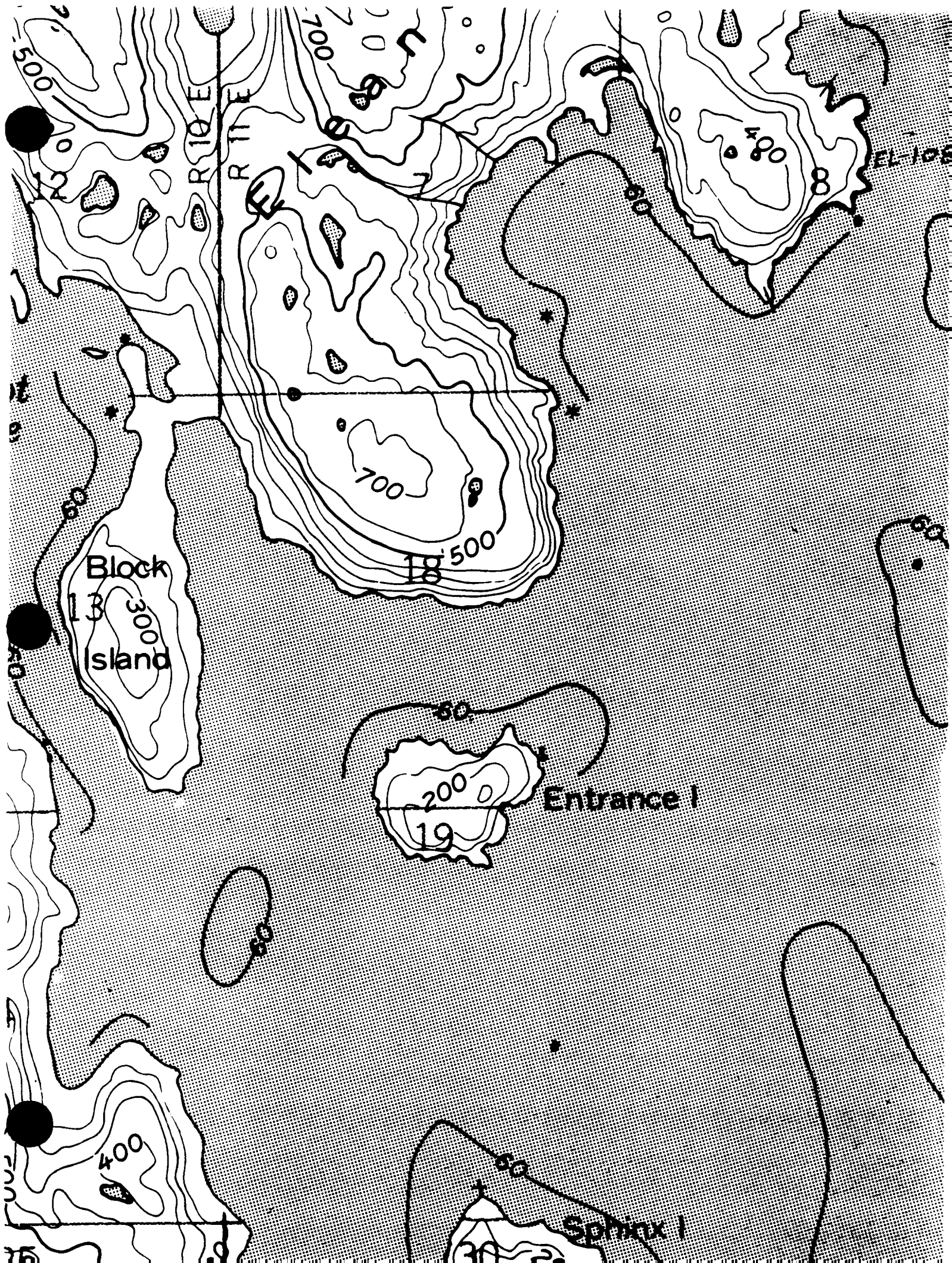
B/W Roll # _____ Frames _____

Observer(s) C. Wilson

Time survey started 1645 Time survey ended 1700

Cultural resource considerations/restraints:

If hereafter undiscovered cultural resources are uncovered during cleanup notify Ellenor arch-aeologist, C. Mobley, immediately.



(version 6/04/89)

SHORELINE CLEANUP PROGRAM

DATE 6/2/89

SHORELINE SEGMENT EL-109

LOCATION: (see enclosed map) Eleanor Island (South Side)

ADEC NO. _____ SHORELINE ASSESSMENT DATE: 5/30/89

Recommended Cleanup Activity(ies):

- Manually remove oiled debris.
- Use appropriate methods to remove free oil on beach 3.
- Flood/flush boulders/cobbles with high pressure hot water, or use other appropriate cleaning methods.
- Use appropriate methods to clean oiled headlands and straits with high wave exposure.

Priorities Considerations:

- Class 2 B

Ecological Constraints (from site survey): SEABIRD COLONY IN SEGMENT EL-108 AT BENCHMARK CLOVE. RECOMMEND ONE MILE BUFFER ZONE AROUND COLONY WHERE FEASIBLE. RESTRICT CLEAN UP BOAT TRAFFIC TO BE AS CLOSE AS POSSIBLE TO ELEANOR ISLAND SHORELINE. FOLLOW ADDITIONAL SEABIRD COLONY ADVISORIES IN CLEANUP MANUAL

Archeological Constraints (from site survey):
Enforcement of the uplands restriction is necessary for beaches 1 and 3. If heretofore undiscovered cultural materials are uncovered during cleanup, contact Exxon's Archeological Field Director and take actions prescribed in the Operational Guidelines for Shoreline Cleanup dated 4/21/89 as amended.

Charles E. Holmes
State Historic Preservation Officer *

Date: June 4, 1989

ISCC: Shawn K. Christopherson

Date: 6-10-89

EXXON: Alcal

Date: June 10 - 89

FOSC: W.C. Alejandro, by dir.

Date: 6-11-89

* Signature required to satisfy stipulations in Alaska DNR land use permits for tide and submerged lands .

SHORELINE OIL EVALUATION

Date: 5/30/89 / Time: 1300-1430

Observer: C. Dillon

Surveyed From: Foot/Boat/Helio/Plane

Weather: Sun/Cloud/Rain/Snow/Fog

LOCATION

LOCATION ELEANOR ISLAND

SEGMENT NUMBER EL-109 (General)

LENGTH OF SHORELINE SEGMENT: 2000 m

ACCESS: Foot/Vehicle/Boat/Barge/Helio/Float Plane

SHORELINE:

Shoreline Type: SPI/BEA/COV/HLD/STRT

Slope: LANG/HANG/VER

Wave Exposure: High/Med/Low

Sediment: B 15 % / C 20 % / P 5 % / G X % / S 1 % / M % / R 60 %

Drift Debris on Beach: Yes/No Supra/Upper/Mid/Lower Type logs/algae

OIL

Degree of Oiling: Heavy/Moderate/Light/No Oil/Unobserved

Area of Beach Impact: SU / SP / H / M / L

Continuous: Y/N % of Segment 100 Width of Band: 2-15 m

Sporadic: Y/N % of Segment

Est. Oil Thickness where > 1cm: 2-6 cm Est. Oil Penetration: <4-220 cm

Pooled Oil: 0 % "Free" Oil: <1 % Coated: H 85 % / M 10 % / L 5 %

Residual Stain Fresh 5 % Mousse 50 % Tar Formation: 45 %

Drift Debris Oiled ? Yes/No Supra/Upper/Mid/Lower Amount: H/M/L

Comments:

Segment consists of 3 beaches and approximately 2200m of headlands and vertical/high angle straights and boulder slopes. The headlands/straights have a continuous 1-2m wide heavy oil band.

Beaches are evaluated separately on the following forms. Photographs of segment: Roll T1G-2 exposures 30-36 (end).

SHORELINE OIL EVALUATION

Date: 5/30/89 Time: 1300-1330

Observer: C. Dillon

Surveyed From: Foot/Boat/Helio/Plane

Weather: Sun/Cloud/Rain/Snow/Fog

LOCATION

LOCATION ELEANOR ISLAND

SEGMENT NUMBER EL-109 (Beach 1)

LENGTH OF SHORELINE ^{Beach} SEGMENT: 300 m

ACCESS: Foot/Vehicle/Boat/Barge/Helio/Float Plane

SHORELINE:

Shoreline Type: SPI/BEA/COV/HLD/STRT

Slope: LANG/HANG/VER

Wave Exposure: High/Med/Low

Sediment: B 5 % / C 40 % / P 40 % / G X % / S 5 % / M % / R 5 %

Drift Debris on Beach: Yes/No

Supra/Upper/Mid/Lower Type logs/algae

OIL

Degree of Oiling: Heavy/Moderate/Light/No Oil/Unobserved

Area of Beach Impact: SU / SP / H / M / L

Continuous: Y/N % of ^{beach} Segment 100 Width of Band: 3-10 m

Sporadic: Y/N % of Segment

Est. Oil Thickness where > 1cm: <1 cm Est. Oil Penetration: None cm

Pooled Oil: % "Free" Oil: % Coated: H 40 % / M 40 % / L 20 %

Fresh % Mousse 90 % Tar Formation: 10 %

Drift Debris Oiled ? Yes/No Supra/Upper/Mid/Lower Amount: H/M/L

Comments:

Refer to diagram for details.

Photos: Roll TIG-2 Exposures 20-23

SHORELINE OIL EVALUATION

Date: 5/30/89 Time: 1330-1405

Observer: C. Diller

Surveyed From: (Foot) Boat/Helio/Plane

Weather: Sun/(Cloud)/Rain/Snow/Fog

LOCATION

LOCATION ELEANOR ISLAND

SEGMENT NUMBER EL-109 (Beach 2)

LENGTH OF SHORELINE ^{Beach} SEGMENT: 250 m

ACCESS: Foot/Vehicle/(Boat/Barge)/Helio/(Float Plane)

SHORELINE:

Shoreline Type: SPI/(BEA)/COV/HLD/STRT

Slope: (LANG)/HANG/(VER)

Wave Exposure: (High)/Med/Low

Sediment: B50% / C20% / P20% / G10% / S10% / M % / R %

Drift Debris on Beach: (Yes)/No (Supra/Upper)/Mid/Lower Type logs/algae

OIL

Degree of Oiling: (Heavy/Moderate/Light)/No Oil/Unobserved

Area of Beach Impact: SU / SP / (H) / M / L

Continuous: (Y)/N % of ^{beach} segment 100 Width of Band: 15 m

Sporadic: Y/(N) % of Segment

Est. Oil Thickness where > 1cm: <1 cm Est. Oil Penetration: 24-20 cm

Pooled Oil: % "Free" Oil: % Coated: H95% / M5% / L %

Fresh % Mousse 10% Tar Formation: 90%

Drift Debris Oiled? (Yes)/No (Supra/Upper)/Mid/Lower Amount: H/M/(L)

Comments:

Refer to diagram for details
Photographs: Roll T1G-2 Exposures 24-29

SHORELINE OIL EVALUATION

Date: 5/30/89 Time: 1405-1430

Observer: C. Dillon

Surveyed From: Foot/Boat/Helio/Plane

Weather: Sun/Cloud/Rain/Snow/Fog

LOCATION

LOCATION ELEANOR ISLAND

SEGMENT NUMBER EL-109 (Beach 3)

LENGTH OF SHORELINE ^{Beach} SEGMENT: 250 m

ACCESS: Foot/Vehicle/Boat/Barge/Helio/Float Plane

SHORELINE:

Shoreline Type: SPI/BEA/COV/HLD/STRT

Slope: LANG/HANG/VER

Wave Exposure: High/Med/Low

Sediment: B 60% / C 30% / P 5% / G % / S % / M % / R 5%

Drift Debris on Beach: Yes/No Supra/Upper/Mid/Lower Type logs

OIL

Degree of Oiling: Heavy/Moderate/Light/No Oil/Unobserved

Area of Beach Impact: SU / SP / H / M / L

Continuous: Y/N % of ^{Beach} Segment 100 Width of Band: 5-15 m

Sporadic: Y/N % of Segment

Est. Oil Thickness where > 1cm: 2-6 cm Est. Oil Penetration: 6-720 cm

Pooled Oil: % "Free" Oil: 5% Coated: H 90% / M % / L 5%

Fresh % Mousse 80% Tar Formation: 50%

Drift Debris Oiled? Yes/No Supra/Upper/Mid/Lower Amount: H/M/L/

Comments:

Refer to diagram for details

Photographs: Roll T1G-2 Exposures 30-35.

5/30/89 EL-109 1300 - 1330

(74)

Beach 1: wx: cloudy/rain wave: high
beach/cove/hdd Survey: foot access: L+bg/hob/pm

Low angle boulder slopes

lgs
unsoiled

↑ N

Cobbles

Cobbles

U ITZ is
heavily coated
pebbles/sand/alga
Berm up to 10cm
penetration

algae
unsoiled

Pebbles

L-M ITZ is
Lightly coated
weathered stain
No penetration

10% Tar
90% stain

Rock

Cobbles

large
rock

Photos:

Roll TIG-2

Frames: 20-23

5% R / 5% B / 40% C / 40% P / 5% S

low amount oiled algae

300m X 20m

Oil band 3m - 10m wide

M-U ITZ is

moderately
coated stain

Cobbles

Rock

U ITZ
light stain

Cobbles

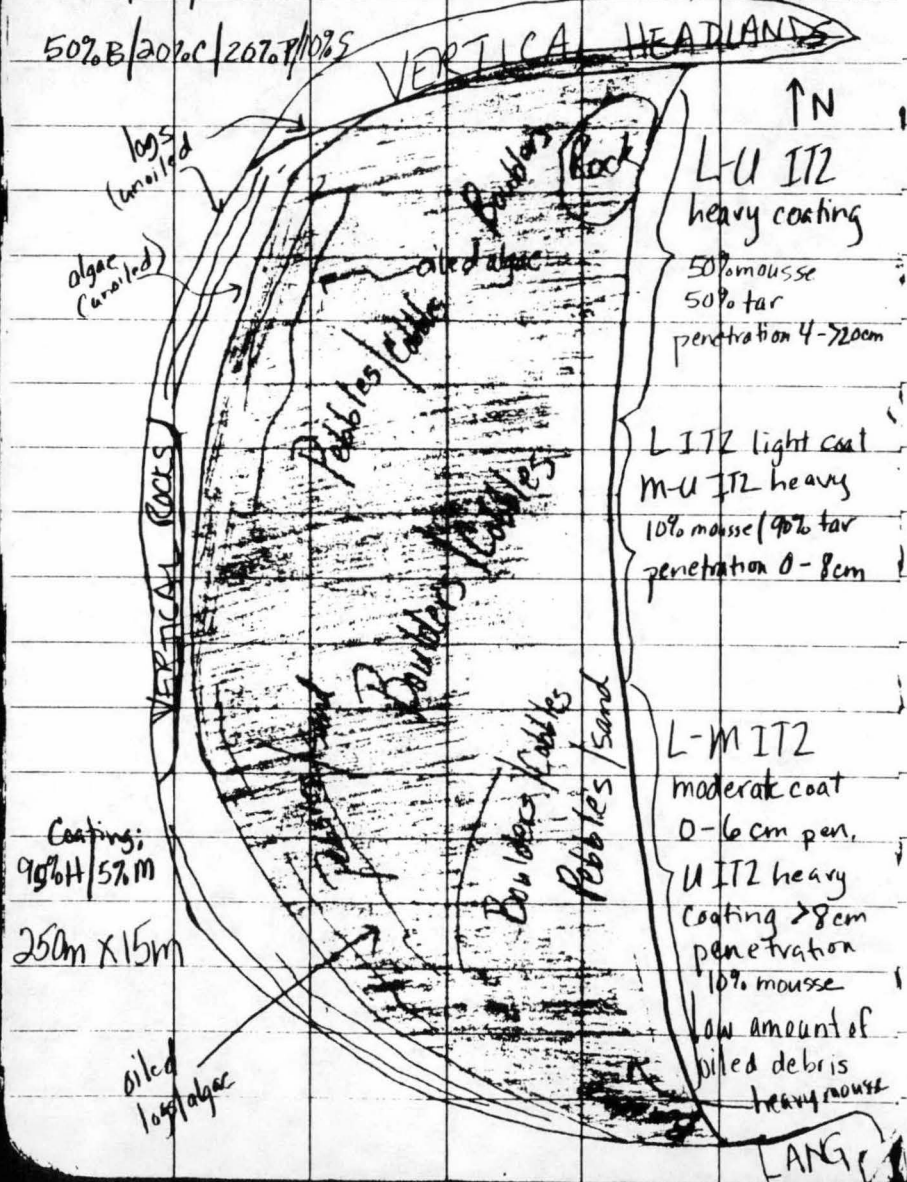
HANG

⑤ 5/30/89 EL-109 1330-1405

Photo
Roll: 102
exp: 24-29

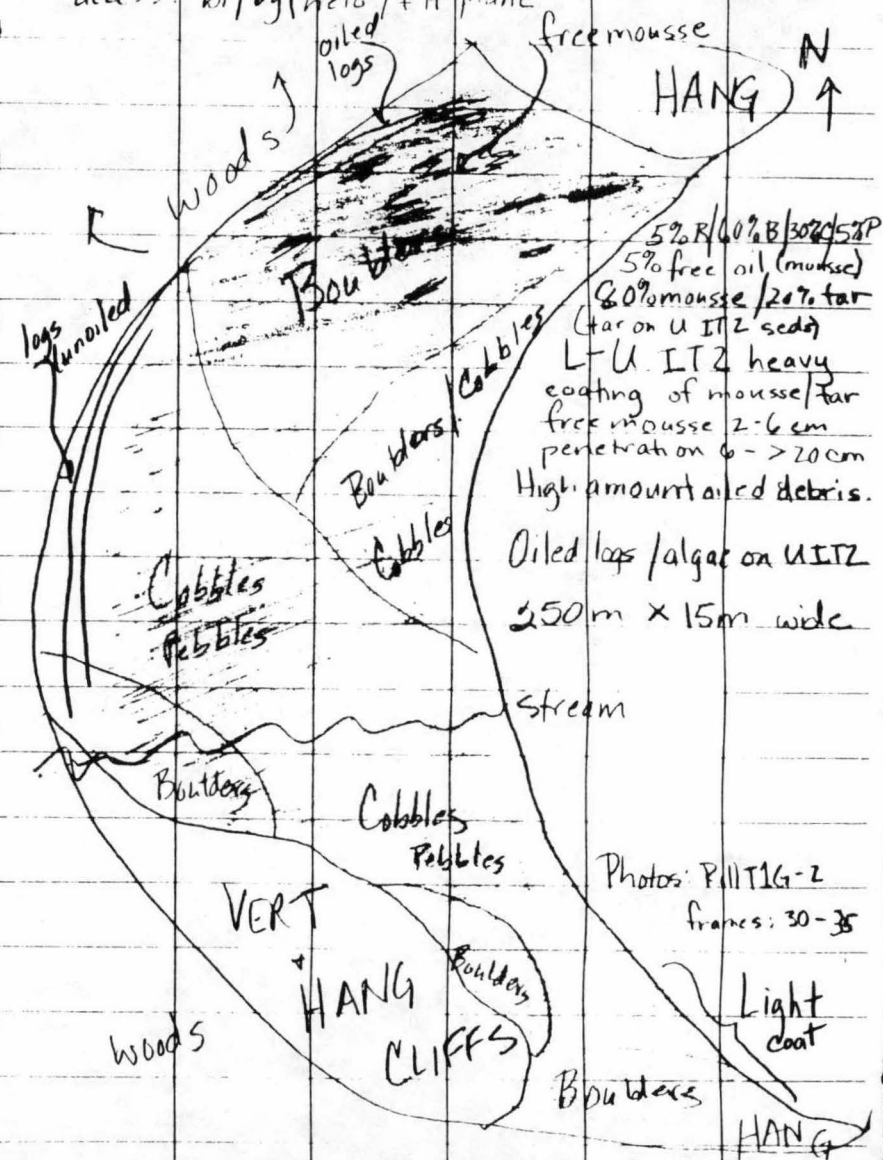
Beach 2: survey: foot w/ clouds
Beach/Coast/holds access: kt/bgl/ft plane wave: high

50% B/20% C/20% T/10% S



EL-109 Beach 3 1405-1430

foot survey/cloudy/wave exp. med/high
access: kt/bgl/helo/ft plane



Photos: P11T1G-2
frames: 30-35

ECOLOGICAL EVALUATION

LOCATION: ELEANOR IS SITE: _____ OBSERVER: A. E. JAHN

LOCATION PREFIX: EL SEG. NO.: EL-109 LENGTH: 3000 (M)

DATE: 5/30/89 TIME (HHMM): 1300-1430 TIDE HT.: 2 ft. (M)

OILED ZONE: Splash High Medium Low

SUBSTRATUM: Rocks Boulder Cobble Gravel Sand Mud

LIVE BIOTA

Fucus (algae): Patchy Y/N Contin. (Y)/N Dense Y/N Sparse Y/N None Y/N

on open rocky shores - not beaches

Mytilus (Mussels): Patchy (Y)/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N

dense bands, discontinuous; also in cracks + some boulders on beach areas

Balanus (Barnacles): Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N

as for Fucus

Littorina

Patchy Y/N Contin. Y/N Dense Y/N Sparse (Y)/N None Y/N

Limpets: Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N

in some brackish tide pools, UTZ; small species common in MTZ - not abundant

OTHER OBSERVATIONS: Nucella (some large) abundant on rocky headland between beaches 1+2 -

also Siphonaria, Diver Whelk, turf algae, Pteraster, Katharina, i.e. diverse flora + fauna
away from beaches, which are oiled.

CLEANUP PRECAUTIONS: none

MAMMALS: Otters _____ Harbor Seals _____ Sea Lions _____ Whales _____
Other _____

BIRDS: Gulls, Pidgeon Guillemots

GENERAL OBSERVATIONS: Beach #1 backed by large freshwater pond. Beaches +

adjacent rocky areas thoroughly oiled, oil flowing toward southwest end of
beach #3

(version of 4/29/89)

CULTURAL RESOURCE EVALUATION

Date 5/30/89 Location Eleon Island Site _____

Location Prefix EL Segment # EL-109 Length 3000m

Survey Method:

Air _____ (A - indicate on map) Boat ✓ THE REST (A - indicate on map)

Ground ✓ BEACHES (G - indicate on map)

Known cultural resources (AHRS #) None Data Source None

Oil conditions/beach visibility moderate

Width of beach zone surveyed 5-15 m Tree fringe surveyed 10m

Cultural resources observed in beach zone (AHRS code) None

Cultural resources observed in tree fringe (AHRS code) None CBN-3

General observations justifying survey method and segment's site probability:

Shore Profile Beaches are broad, moderately sloped and mostly gravel

Fresh Water Sources Two streams

Sea Exposure open southeast

Access/Safety beaches good, the rest poor

Probability of undiscovered sites in beach zone (circle one) 1 (2) 3 4 5

Monitoring during cleanup needed yes (no) Collection yes (no)

Photos: Color Roll # CW-C1- Frames 4, 5, 6

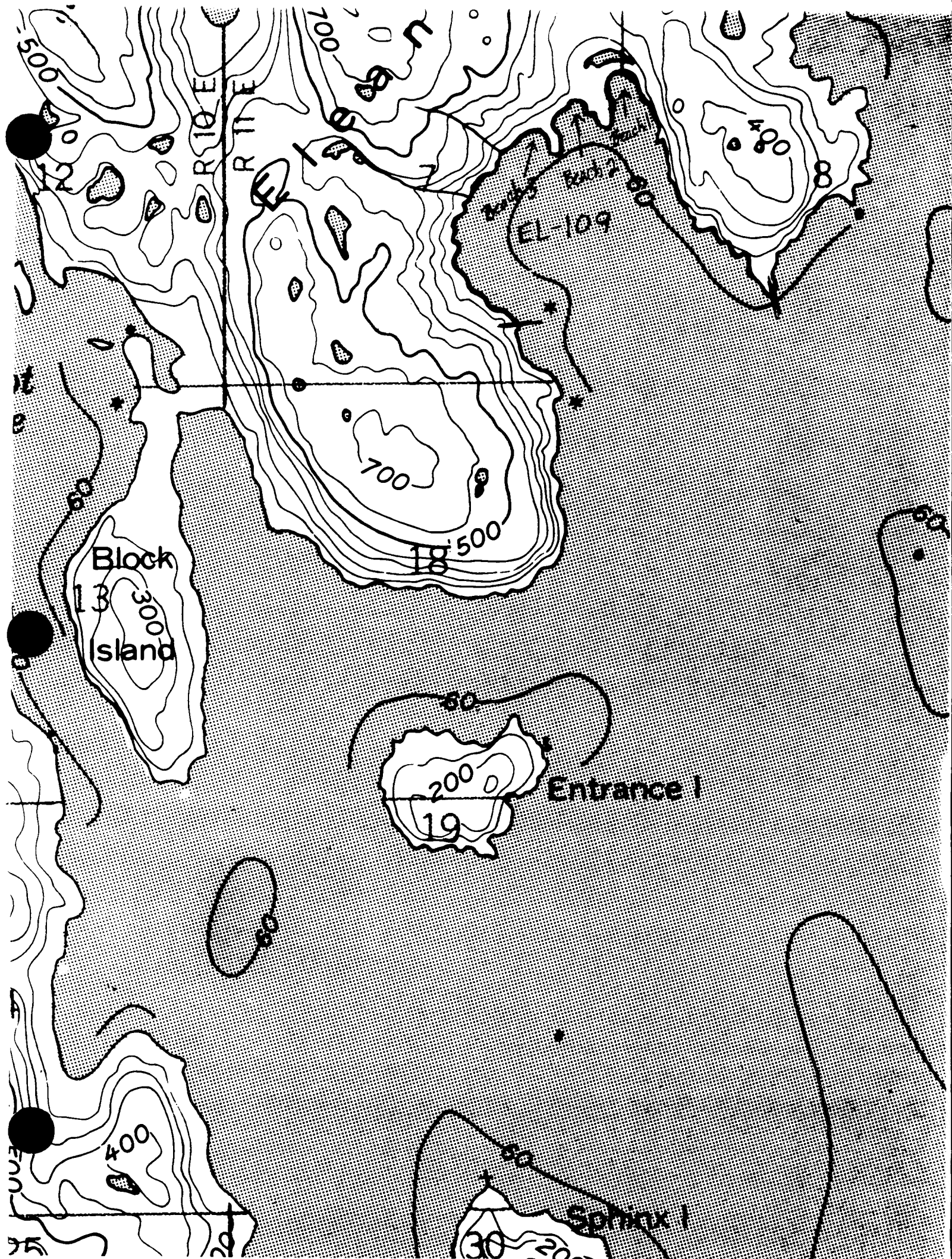
B/W Roll # _____ Frames _____

Observer(s) C. Wilson

Time survey started 1300 Time survey ended 1430

Cultural resource considerations/restraints:

If heretofore undiscovered cultural resources are discovered during cleanup notify Elton archaeologist, C. Mobley, immediately



(version 6/04/89)

SHORELINE CLEANUP PROGRAM

DATE 5-30-89

SHORELINE SEGMENT EL-110

LOCATION: (see enclosed map) Eleanor Island (South Shore)

ADEC NO. _____ SHORELINE ASSESSMENT DATE: _____

Recommended Cleanup Activity(ies):

at this time
No cleanup recommended. Oil is a residual stain only and is not recoverable.

Priorities Considerations:

Class 4B

Ecological Constraints (from site survey):

None

Archeological Constraints (from site survey):

If cleanup is conducted and heretofore undiscovered cultural materials are uncovered, contact Exxon's Archeological Field Director and take actions prescribed in the Operational Guidelines for Shoreline Cleanup dated 4/21/89 as amended.

Charles E. Adner
State Historic Preservation Officer *

Date: June 4, 1989

ISCC: Sharon K. Christopher

Date: 6-10-89

EXXON: Real

Date: June 10 - 89

FOSC: A. P. Alejandro, by dir.

Date: 6-11-89

* Signature required to satisfy stipulations in Alaska DNR land use permits for tide and submerged lands.

SHORELINE OIL EVALUATION

Date: 5/30/89 Time: 1430-1500

Observer: C. Diller

Surveyed From: Foot/Boat/Helio/Plane

Weather: Sun/Cloud/Rain/Snow/Fog

LOCATION

LOCATION ELEANOR ISLAND SEGMENT NUMBER EL-110

LENGTH OF SHORELINE SEGMENT: 2500 m

ACCESS: Foot/Vehicle/Boat/Barge/Helio/Float Plane

SHORELINE:

Shoreline Type: SPI/BEA/COV/HLD/STRT Slope: LANG/HANG/VER

Wave Exposure: High/Med/Low

Sediment: B 10% / C ___% / P ___% / G ___% / S ___% / M ___% / R 90%

Drift Debris on Beach: Yes/No Supra/Upper/Mid/Lower Type _____

OIL

Degree of Oiling: Heavy/Moderate/Light/No Oil/Unobserved

Area of Beach Impact: SU / SP / H / M / L

Continuous: Y/N % of Segment _____ Width of Band: <1 m

Sporadic: Y/N % of Segment 10

Est. Oil Thickness where > 1cm: _____ cm Est. Oil Penetration: _____ cm

Pooled Oil: _____% "Free" Oil: _____% Coated: H ___% / M ___% / L 100%

Residual stain
Fresh

100% Mousse _____% Tar Formation: _____%

Drift Debris Oiled? Yes/No Supra/Upper/Mid/Lower Amount: H/M/L/

Comments:

Entire segment is headlands, vertical/high angle
straits and steep boulder slopes. 90% of the segment
is unoiled. 10% is sporadically oiled by a
light residual stain <1m wide at the high tide
level.

ECOLOGICAL EVALUATION

LOCATION: ELEANOR IS SITE: _____ OBSERVER: A.E. JAHN

LOCATION PREFIX: EL SEG. NO.: EL-110 LENGTH: 2500 (M)

DATE: 5/29/89 TIME (HHMM): 1430-1500 TIDE HT.: 2 ft (M)

OILED ZONE: Splash (High) Medium Low

SUBSTRATUM: Rocks Boulder Cobble Gravel Sand Mud

LIVE BIOTA

Fucus (algae): Patchy (Y/N) Contin. Y/N Dense Y/N Sparse Y/N None Y/N

Mytilus (Mussels): Patchy (Y/N) Contin. Y/N Dense Y/N Sparse Y/N None Y/N

in discontinuous, dense bands several meters long but ~1/2 m vertically

Balanus (Barnacles): Patchy (Y/N) Contin. Y/N Dense Y/N Sparse Y/N None Y/N

Littorina

Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N

Limpets: Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N

OTHER OBSERVATIONS: viewed from skiff - not much oil; hard to see small animals

CLEANUP PRECAUTIONS: not worth cleaning

MAMMALS: Otters _____ Harbor Seals _____ Sea Lions _____ Whales _____
Other _____

BIRDS: ravens

GENERAL OBSERVATIONS: exposed headland - high energy intertidal along eastern exposure. western + southern exposure protected by Entrance Is. - similar but mussels much less evident.

(version of 4/29/89)

CULTURAL RESOURCE EVALUATION

Date 5/29/89 Location Eleon Island Site _____

Location Prefix EL Segment # EL-110 Length 2500m

Survey Method:

Air _____ (A - indicate on map) Boat _____ (A - indicate on map)

Ground _____ (G - indicate on map)

Known cultural resources (AHRS #) None Data Source None

Oil conditions/beach visibility none to light

Width of beach zone surveyed _____ m Tree fringe surveyed 0

Cultural resources observed in beach zone (AHRS code) None

Cultural resources observed in tree fringe (AHRS code) None

General observations justifying survey method and segment's site probability:

Shore Profile vertical walls and steep boulder fields

Fresh Water Sources none

Sea Exposure south

Access/Safety poor

Probability of undiscovered sites in beach zone (circle one) 1 2 3 4 5

Monitoring during cleanup needed yes no Collection yes no

Photos: Color Roll # _____ Frames _____

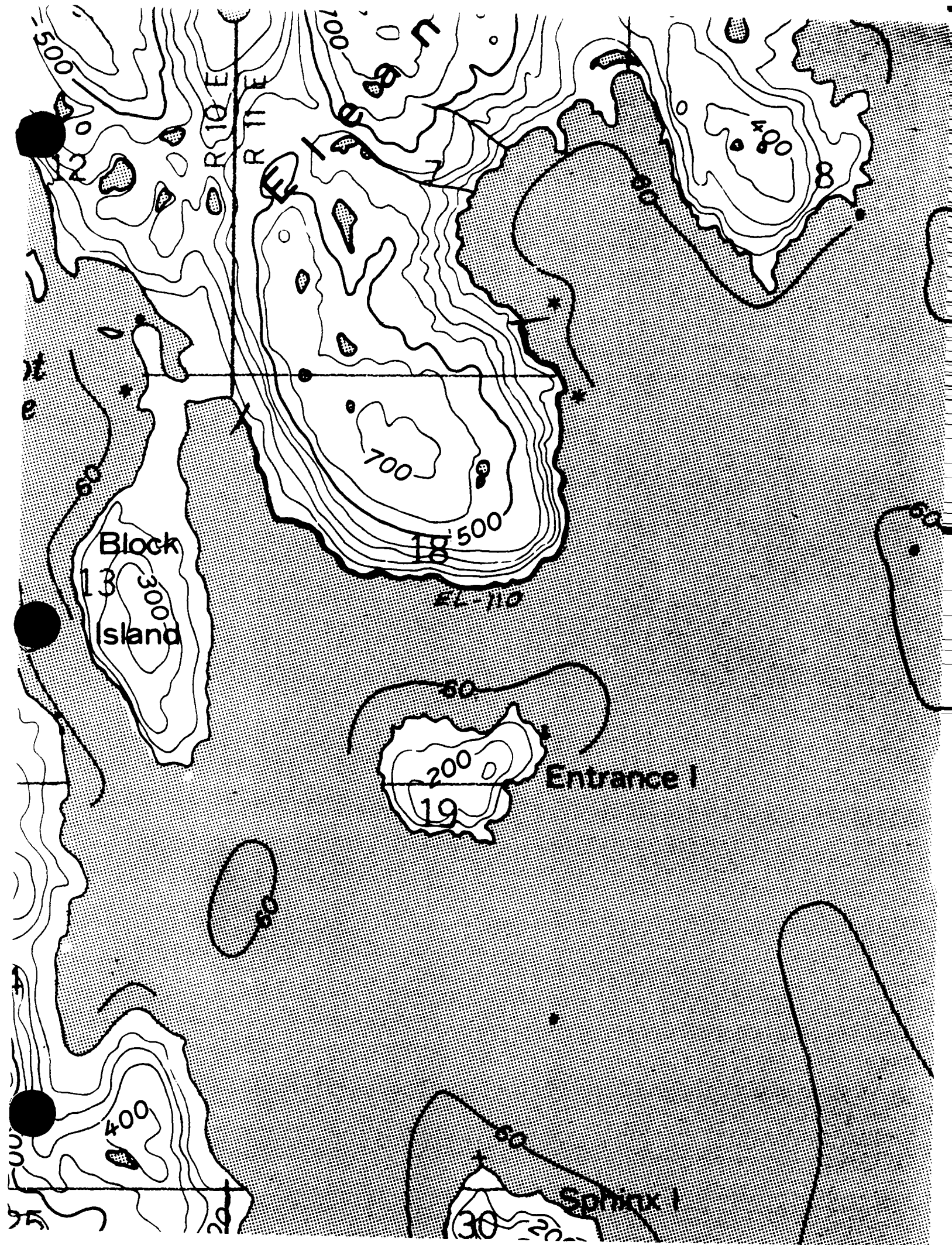
B/W Roll # _____ Frames _____

Observer(s) C. Carlson

Time survey started 1430 Time survey ended 1530

Cultural resource considerations/restraints:

If heretofore undiscovered cultural resources are
discovered during cleanup notify Egon archaeologist
C. Mobley, immediately.



SEG EL-105 INSPECTION # 1
DATE 7/30/89SEGMENT
INSPECTION RECORD

Shoreline Treatment Process(es) Completed for this Segment



Hot water wash

Mechanical HAND CLEANING

Warm water wash

Non-mechanical ABSORBANTS & SNARES

Water deluge



Other _____

Exxon

Treatment as indicated above has been completed. Request demobilization from this segment.

Comments THIS SEGMENT IS ENVIRONMENTALLY
CLEAN.

Signature

B. E. WilliamsDate: 1 / 1 Time:

Printed Name

BRUCE E. WILLIAMS

Existing Shoreline Condition As Visually Determined by USCG

Surface Oil

Subsurface Oil

Percent Degree of Oiling



Yes



No

20%

Heavy

Medium

60%

Light

100%

Very Light

10%

None

100 %

Comments on beach areas, inspection
was used appear to have been
submerged

Reassessment



Yes - necessary



No - not necessary unless re-oiled

ADEC rep Comments

Signature

HARC S. WilliamsDate: 8/2/89 Time: 8:52

Printed Name

HARC S. WILLIAMS

FOSC rep

Demobilization approved/disapproved

Comments

Signature

William WilliamsDate: 8/2/89 Time: 08:50

Printed Name

William Williams

25JUL89

SEG EL106 INSPECTION # _____

SEGMENT

DATE 8-18-89

INSPECTION RECORD

Shoreline Treatment Process(es) Completed for this Segment



Hot water wash

Mechanical Pump & SNARE

Warm water wash



Non-mechanical _____



Water deluge



Other _____

Exxon

Treatment as indicated above has been completed. Request demobilization from this segment.

Comments

TREATMENT OF SEGMENT EL 106 IS COMPLETE
READY FOR DEMOBILIZATION & DEPLOYMENT TO NEW SEGMENT

Signature

Charles Tompkins

Date: 8/18/89 Time: 13:20 PM

Printed Name

CHARLES TOMPKINS

Existing Shoreline Condition As Visually Determined by USCG

Surface Oil
Percent Degree of Oiling

<u>1%</u>	Heavy
<u>10%</u>	Medium
<u>25%</u>	Light
<u>15%</u>	Very Light
<u>49%</u>	None
100 %	

Subsurface Oil
☒ Yes ☐ No

COMMENT BELOW

Reassessment

☒ Yes - necessary
☐ No - not necessary unless re-oiled

Existing Shoreline Condition As Visually Determined by ADEC

Surface Oil
Percent Degree of Oiling

<u>1%</u>	Heavy
<u>10%</u>	Medium
<u>20%</u>	Light
<u>20%</u>	Very Light
<u>49%</u>	None
100 %	

Subsurface Oil
☒ Yes ☐ No

COMMENT BELOW

Reassessment

☒ Yes - necessary
☐ No - not necessary unless re-oiled

ADEC rep

Comments Gross contamination removed, no free-flowing oil observed. Some
light to medium subsurface oil. Affected areas turning some sheen into the water

Signature

Joseph S. Sautner

Date: 8/17/89 Time: 1335

Printed Name

JOSEPH S. SAUTNER

FOSC rep

Demobilization approved/disapproved

Comments IMPACTED AREAS WILL CONTINUE TO SHEEN & PRODUCE SOME MOUSSE,

Signature

Thomas D. Harrison

Date: 8/17/89 Time: 1330

Printed Name

THOMAS D. HARRISON LT USCG

COPY: EXXON ADEC FOSC ISCC

25JUL89

SEG EL 109 INSPECTION: 1

SEGMENT

DATE 8-22-89

INSPECTION RECORD

CHARTER 1
25JUL89

Shoreline Treatment Process(es) Completed for this Segment



Hot water wash
Warm water wash
Water deluge



Mechanical
Non-mechanical Pom Pom & SNARE
Other _____

Exxon

Treatment as indicated above has been completed. Request demobilization from this segment.

Comments TREATMENT OF SEGMENT EL 109 IS COMPLETE
READY FOR DEMOBILIZATION & DEPLOYMENT TO NEW SEGMENT

Signature Lloyd Guillery

Date: 8/22/89 Time: 1230

Printed Name LLOYD GUILLERY

Existing Shoreline Condition As Visually Determined by USCG

Surface Oil
Percent Degree of Oiling
21
25
20
10
46 44
100 %
Heavy
Medium
Light
Very Light
None

Existing Shoreline Condition As Visually Determined by ADEC

Surface Oil
Percent Degree of Oiling
21
35
24
15
25
100 %
Heavy
Medium
Light
Very Light
None

Subsurface Oil

☒ Yes ☐ No

COMMENT BELOW

Reassessment

☒ Yes - necessary
☐ No - not necessary unless re-oiled

Subsurface Oil

☒ Yes ☐ No

COMMENT BELOW

Reassessment

☒ Yes - necessary
☐ No - not necessary unless re-oiled

ADEC rep

Comments No gross contamination. Recommend
demobilization

Signature Kate Siftar

Date: 8/22/89 Time: _____

Printed Name Kate SIFTAR

FOSC rep

Demobilization approved/disapproved

Comments No gross contamination

Signature _____

Date: 8/24/89 Time: 1250

Printed Name Tom Porey

COPY: EXXON ADEC FOSC ISCC

TREATMENT MANUAL, 6/15/89

SEG EL-110 INSPECTION # 1

SEGMENT

DATE July 3, 1989

INSPECTION RECORD

J. A. M.
7/12/89

Shoreline Treatment Process(es) Completed for this Segment

- ☒ Hot water wash
☒ Warm water wash
☒ Water deluge

- ☐ Mechanical
☒ Non-mechanical Hand Wash & Air Bls
☐ Other _____

Exxon

Treatment as indicated above has been completed. Request demobilization from this segment.

Comments TREATMENT OF SEGMENT EL-110 IS COMPLETE AND READY FOR DEMOBILIZATION AND REEQUIPMENT TO NEW SEGMENT

Signature Melvin D. Jones Date: 7/3/89 Time: 7:15

Printed Name MELVIN D. JONES

Existing Shoreline Condition As Visually Determined by USCG

Surface Oil

Percent Degree of Oiling

0 Heavy
5 Medium
15 Light
20 Very Light
60 None

100 %

Subsurface Oil

☐ Yes ☒ No

Comments _____

Reassessment

☒ Yes - necessary ☐ No - not necessary unless re-oiled

ADEC rep Comments Gross Contamination removed. Mobile

Monitor oil slicks present on this section. Recommend
swaves to check moving to heavily oiled segment and treat.
 Signature Denny R. Timmons Date: 7/4/89 Time: 1905
 Printed Name DENNY R. TIMMONS, Engr Engr, ADEC

FOSC rep

Demobilization approved/disapproved

Comments GROSS CONTAMINATION REMOVED. Recommended

SWAVES TO MONITOR IN W. OF WAVE AREA. AREA 20' by 30'.

Signature Paul Timmons Date: 7/14/89 Time: 1905

Printed Name PAUL TIMMONS, CWO2

(version 5/04/89)

SHORELINE PRE-CLEANUP ASSESSMENT BLOCK REPORT

Location (see enclosed map): ELEANOR ISLAND WEST BLOCK

Includes Shoreline Segments: EL-999

Submitted : *[Signature]* Date: 7/18/89
(for Exxon)

ISCC Approval: *Sharon K. Christopher* Date: 7/21/89

FOSC Approval: *[Signature]* Date: 7/21/89

The cleanup procedures identified in the Shoreline Cleanup Program are recommended. Modifications to these systems can be made in the field. Exxon and other field personnel are encouraged to suggest innovations and productivity enhancements to the OSC's on-scene representative. The OSC's representative has the authority to approve on-site modifications. The Field Resource Team should be consulted if these actions do not fit within the Ecological Constraints of the Shoreline Cleanup Program. Requirements for safety and the protection of cultural material must be observed.

Distribution:

Exxon Shoreline Coordinator
Exxon Shoreline Supervisor
Exxon SCAT file

FOSC
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NOAA
EPA
USDA (FS)
USFW
A.DEC
A.FG
A.DNR
CAC
PWSCA
USFS

AKA
7/21

(version 6/14/89)

SHORELINE CLEANUP PROGRAM

DATE July 17, 1989

SHORELINE SEGMENT EL-999

LOCATION: (see enclosed map) Northwest Eleanor Island

ADEC NO. _____ SHORELINE ASSESSMENT DATE: 7/13/89

Recommended Cleanup Activity(ies):

- Beach segment has been subjected to cleanup activities. Tops of cobbles and boulders relatively clean. Future cleanup should concentrate on bases of cobbles/boulders.
- Manually remove cleanup related garbage.
- Use approved methods as appropriate.

Priorities Considerations:

Class 2-3: heavy to moderate oil.
Class A: resources present.

Ecological Constraints (from site survey): Work at mid tide + or take appropriate measures to protect lower intertidal zone.

Archeological Constraints (from site survey):

If heretofore undiscovered cultural materials are uncovered during cleanup, contact Exxon's Archeological Field Director and take actions prescribed in the Operational Guidelines for Shoreline Cleanup dated 4/21/89 as amended.



State Historic Preservation Officer *

Date: July 18, 89

ISCC: Sharon K. Christopher

Date: 7/21/89

EXXON: L. H. H.

Date: 89-07-21

FOSC: C. E. Nelson

Date: 7/21/89

* Signature required to satisfy stipulations in Alaska DNR land use permits for tide and submerged lands.

2292

ELEANOR ISLAND WEST BLOCK

EL-999

1770

J-00

1332

878

936

1920

1122

2310

7/26/89
USFWS 2004

2376

888

NO ACTIVE BALD EAGLE
NESTS IN THIS AREA
AT THIS TIME

Northwest Bay

Abbot Light

Romero

EL-777

Upper

Passage

Ingot Cove

Block Island

Entrance I

Lower

Passage

Disk Island

Foul Point

Sphinx I

40

R 10 E. R 11 E.

35

(SEWARD B-2)

al Survey

SCALE 1:63360

SHORELINE OIL EVALUATION

Date: July 13th Time: 14:30 PM

Observer: Greg Chaney

Surveyed From: Foot/Boat/Helio/Plane

Weather: Sun/Cloud/Rain/Snow/Fog

LOCATION

LOCATION N.W. Eleanor Is.

SEGMENT NUMBER EL-999

LENGTH OF SHORELINE SEGMENT: 600 m

ACCESS: Foot/Vehicle/Boat/Barge/Helio/Float Plane

SHORELINE:

Shoreline Type: SPI/SEA/COV/HLD/STRT

Slope: LANG/HANG/VER

Wave Exposure: High/Med/Low

Sediment: B25% / C20% / P5% / G5% / S5% / M-% / R40%

Drift Debris on Beach: Yes/No

Supra/Upper/Mid/Lower Type

Seaweed
Logs
Garbage

OIL

Degree of Oiling: Heavy/Moderate/Light/No Oil/Unobserved

Area of Beach Impact: SU / SP / H / M / L

Continuous: Y/N % of Segment 100 Width of Band: 1 to 25 m

Sporadic: Y/N % of Segment -

Max. Obs.

Est. Oil Thickness where > 1cm: - cm Est. Oil Penetration: 35 cm

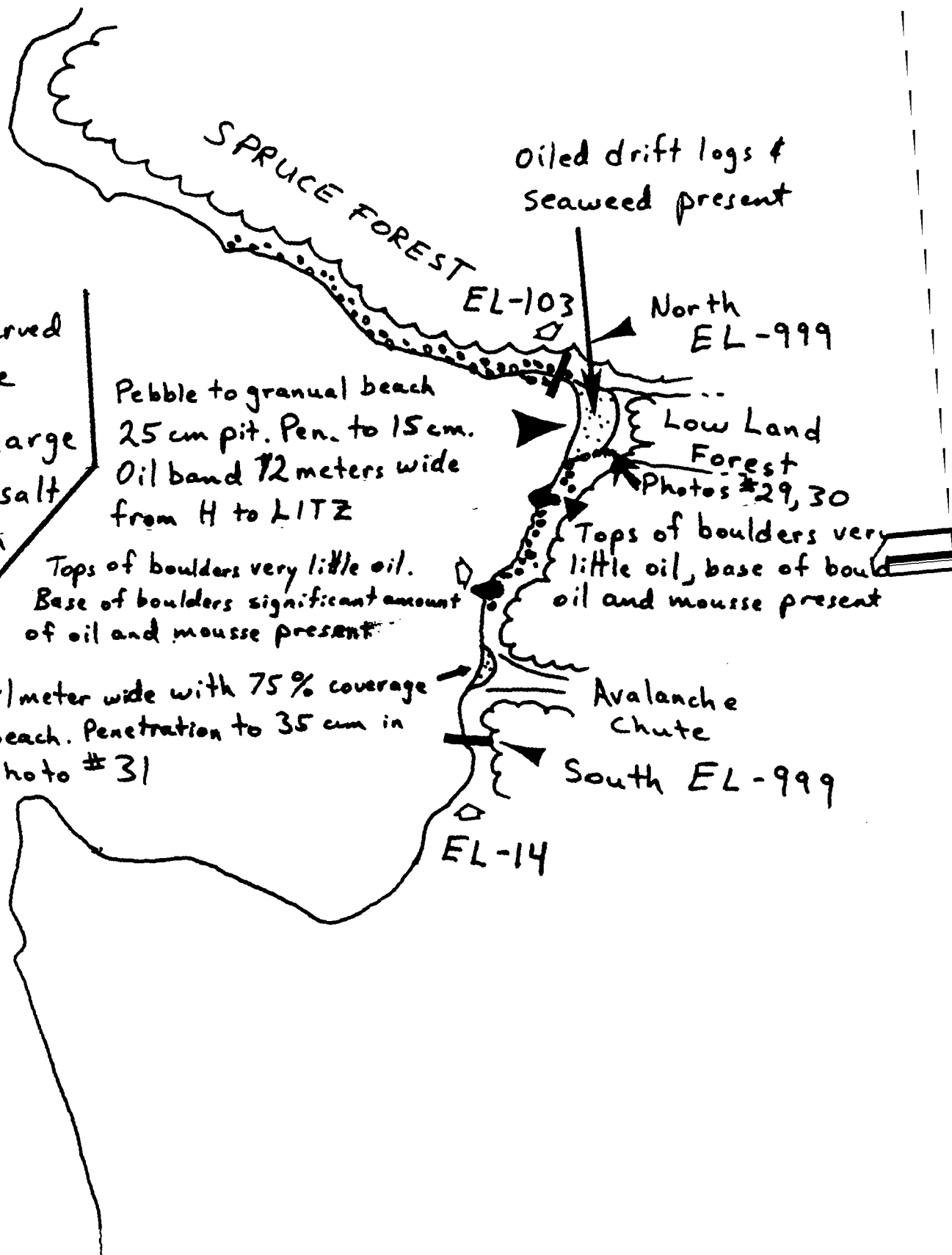
Pooled Oil: -% "Free" Oil: -% Coated: H50% / M30% / L20%

Fresh 30% Mousse 15% Tar Formation: 65%

Drift Debris Oiled? Yes/No Supra/Upper/Mid/Lower Amount: H/M/L/

Comments:

Beach seems to have been subjected to treatment. Tops of rocks & boulders have very little oil but bottoms still retain oil up to 2mm. Clean up related garbage should be removed. Oil removal has been effective however further treatment should concentrate on boulder bases which could be sprayed from the side.



ECOLOGICAL EVALUATION

LOCATION: Eleanor Island SITE: _____ OBSERVER: Crank

LOCATION PREFIX: EL SEG. NO.: 999 LENGTH: 100 (M)

DATE: 07/13/89 TIME (HHMM): 1500 TIDE HT.: +5' ~~FT~~

OILED ZONE: Splash High Medium Low

SUBSTRATUM: Rocks Boulder Cobble Gravel Sand Mud

LIVE BIOTA

Fucus (algae): Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N

Sparse: dead or dying on beach Cont: dense on rock
Moderate

Mytilus (Mussels): Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N

Nucella present. A few dense patches mostly continuous; moderate.

Balanus (Barnacles): Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N

Littorina

Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N

Sparse on beach, Cont: dead on rocks

Limpets: Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N

OTHER OBSERVATIONS: Area appears to have been treated - Oiled
waste left on beach. Cobble beach has little biota

CLEANUP PRECAUTIONS: Work at +5' or higher

MAMMALS: Otters — Harbor Seals — Sea Lions — Whales —
Other _____

BIRDS: Bald Eagle, Terns, Gulls

GENERAL OBSERVATIONS: Fucus above 5' appears to be dead or dying
below +5' appears relatively healthy.

(version of 4/29/89)

CULTURAL RESOURCE EVALUATION

Date 7/13/89 Location ^{Seward B-3} Eleanor Island-NW Knight Is. Site

Location Prefix EL Segment # 999 Length 60 m

Survey Method:

Air (A - indicate on map) Boat 75% (A - indicate on map)

Ground 25% (G - indicate on map)

Known cultural resources (AHRS #) None Data Source

Oil conditions/beach visibility heavily oiled, visibility in intertidal is not good

Width of beach zone surveyed cursory 5 m Tree fringe surveyed 60 m

Cultural resources observed in beach zone (AHRS code) FCR, drifted HTD

Cultural resources observed in tree fringe (AHRS code) CMT

General observations justifying survey method and segment's site probability:

Shore Profile shoreline was steep bedrock + boulders with a small cobble cove on NE

Fresh Water Sources 2 creeks at each end of pocket cove

Sea Exposure relatively exposed to Knight Island Passage

Access/Safety OK

Probability of undiscovered sites in beach zone (circle one) 1 2 3 4 5

Monitoring during cleanup needed yes/no Collection yes/no

Photos: Color Roll # Frames

B/W Roll # MM 7 Frames 13-14

Observer(s) MMoss

Time survey started 1410 Time survey ended 1530

Cultural resource considerations/restraints:

There is evidence of indigenous use of the area, but resources do not appear vulnerable to clean-up activities. — Standard constraints

878

SCAT TEAM 5

Greg Chaney

Segment EL-999

Date July 13, 1989

Time ~ 19:00

Tide ~ 5.0 ft

Northwest Bay

938

60

200

36

T 6 N

T 5 N

EL-999

300

EL-14

EL-13

Cabin

6

500

700

R 10 E
R 11 E

100

8

08

200

500

31

60

60

60

60

60

60

60

60

60

60

60

29

30

31

32

33

34

35

36

37

38

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41

42

43

44

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49

50

51

52

TREATMENT MANUAL, 6/15/89

SEG EL-999 INSPECTION # 1

SEGMENT

DATE 7/25/89

INSPECTION RECORD

Shoreline Treatment Process(es) Completed for this Segment



Hot water wash



Mechanical



Warm water wash



Non-mechanical



Water deluge



Other

Exxon

Treatment as indicated above has been completed. Request demobilization from this segment.

Comments Treatment of segment EL-999 is complete and ready for demobilization to next segment.Signature Steve E. RamsowerDate: 7/25/89 Time: 1210Printed Name Steve E. Ramsower

TF-2 Commander

Existing Shoreline Condition As Visually Determined by USCG

Surface Oil

Subsurface Oil

Percent Degree of Oiling



Yes



No

0

Heavy

5

Medium

25

Light

0

Very Light

70

None

100 %

Comments LIGHT IN BEACH AREA.

Reassessment



Yes - necessary



No - not necessary unless re-oiled

ADEC rep Comments NO ADEC INSPECTION PROVIDED.

Signature

Date: / / Time:

Printed Name

FOSC rep

Demobilization approved/disapprovedComments NO GROSS CONTAMINATION.

Signature

Date: 7/25/89 Time: 1215.

(version 4/28/89)

SHORELINE PRE-CLEANUP ASSESSMENT BLOCK REPORT

Location (see enclosed map): Lower Passage Block, (Westside of Ingot
and all of Disk Islands.)

Includes Shoreline Segments: IN-24, IN-28, IN-29, IN-30, IN-31, IN-32
DI-59, DI-60, DI-61, DI-62, DI-63, DI-64, DI-65, DI-66, DI-67, DI-68, DI-69

SWAMP DRAINAGE ADVISORY ADDED TO CIRCLED BLOCKS EPL

*" AVOID STREAMS OR BANKS OF STREAMS UNLESS THE RESOURCE
ADVISORY TEAM BIOLOGIST AUTHORIZES CLEANUP ACTIVITIES ON
A SITE-SPECIFIC BASIS "*

Submitted :

W. H. H. H. H.
(for Exxon)

Date: 5/3/89

FOSC Approval:

C. S. Robbins

Date: 5/9/89

Endorsed by ISCC 5-9-89 Sam E. H. CDR, NOAA

Distribution:

Exxon Shoreline Coordinator
Exxon Shoreline Supervisor
Exxon SCAT file

FOSC

NOAA
EPA
USDA (FS)
USFW
A.DEC
A.FG
A.DNR

PWSCA

*Also ADDITIONAL COMMENTS ON DI-69 EPL
DI 67*

(version 4/28/89)

SHORELINE CLEANUP PROGRAM

DATE: April 28, 1989

SHORELINE SEGMENT IN-24

LOCATION: (see enclosed map) Ingot Island, northwest shore

ADEC NO. _____ SHORELINE ASSESSMENT DATE: 4-17-89

Recommended Cleanup Activity(ies):

Flooding/low pressure washing on gravel beaches.
Low/high pressure washing on boulders and rock faces, use warm water if oil weathered and tightly adhered.

Priorities Considerations:

Ecological Constraints (from site survey):

AWAY FROM STREAM ADVISORY { Avoid dislodging rockweed and mussels, unless already dead.
No cleanup at creek mouths. *AVOID STREAMS OR BANKS OF STREAMS UNLESS THE RESOURCE ADVISORY TEAM BIOLOGIST AUTHORIZES CLEANUP ON A SITE-SPECIFIC BASIS*
Archeological Constraints (from site survey):
If heretofore undiscovered cultural materials are uncovered during cleanup, contact Exxon archaeologist C. Mobley and take actions prescribed in the Operational Guidelines for Shoreline Cleanup dated 4/21/89 as amended.

Joseph E. Bittner
State Historic Preservation Officer *

Date: 4/29/89

EXXON: _____

Date: _____

FOSC: _____

Date: _____

* Signature required to satisfy stipulations in Alaska DNR land use permits for tide and submerged lands .

Master

IN-24

SHORELINE OIL EVALUATION

[revised 11 Apr 89]

Date: 4 / 17 / 89

Observer: Ken Holbrook, John Mattson

Time: 09 h 00 m

Weather: Sun/Cloud/Rain/Snow/Fog

LOCATION

LOCATION Ingot Island

SITE North west

LOCATION PREFIX IN

LOCATION SUFFIX 24

LATITUDE: 6 d m s LONGITUDE: 147 d m s

LENGTH OF SHORELINE SEGMENT: 1800 m

ACCESS: Foot/VEHICLE/BOAT/BARGE/HELICOPTER/Plane

This survey is combination helo in the rocky areas and ground in
SHORELINE all of the coves. Ken

SHORELINE CHARACTER:

—Open Coast ☒

—Sheltered Coast ☐

Rock ☒ Y/N

Vertical/High Angle/Low Angle

Sediment ☒ Y/N

BEACH/SPIT/COVE

SEDIMENT TYPE: ☒ B / ☒ C / ☒ P / ☒ G / ☒ S / M / ☒ R

OIL

LOCATION OF OIL: SU / ☒ SP / ☒ H / ☒ M / L

CONTINUOUS: ☒ Y/N WIDTH OF CONTINUOUS BAND: 1-30 m

PATCHY: 10 / 20 / 30 / 40 / 50 / 60 / 70 / 80 / 90 % coverage

EST. OIL THICKNESS: 25-.5 cm EST. OIL PENETRATION: 20 cm

POOLED OIL: ☒ Y/N

"FREE" OIL: ☒ Y/N

WEATHERED: ☒ Y/N

DOCUMENTATION

VTR: Y/N Tape Number(s) N

PHOTOGRAPHY: Y/N Roll Number(s) N

SAMPLE NUMBERS COLLECTED: N

This area is a T-shaped gravel beach with 20cm of gravel
width of beach is 30 meters on the gravel beaches
The remainder is rock, with cliffs, and large rubble and
boulders, this area has 25-.5 cm of oil on rocks in the mid to high
large and small also pooling oil to 5 inches over

IN-24

ECOLOGICAL EVALUATION

John Mattson

LOCATION Ingot Island

SITE North west #24

OBSERVER Ken Holbrook

DATE 4 / 17 / 1989

TIME (HHMM) 0900

TIDE HT. (m) _____

OILED ZONE: SPLASH HIGH MED LOW

SUBSTRATUM: ROCKS BOULDER COBBLE GRAVEL SAND MUD

LIVE BIOTA / DENSITY (#/m² or %cover-algae):

Fucus 30-50 Mytilus 10-50 Balanus 50 Littorina

Nucella Pagurus Limpets Halosaccion

Gelidium Other anenome - scattered

Oil Damaged Biota All biota within the oil zone is dead or dying, biota not covered by oil are alive, but weak.

Clean-up Precautions Leave Fucus holdfast and mussel clumps.

OILED ZONE: SPLASH HIGH MED LOW

SUBSTRATUM: ROCKS BOULDER COBBLE GRAVEL SAND MUD

LIVE BIOTA / DENSITY (#/m² or %cover-algae):

Fucus Mytilus Balanus Littorina

Nucella Pagurus Limpets Halosaccion

Gelidium Other

Oil Damaged Biota _____

Clean-up Precautions _____

MAMMALS (#): OTTERS 1 HARBOR 2 DALL _____ OTHER _____

OTHER _____

BIRDS: Oyster catcher, 2 oiled eagles

GENERAL OBSERVATIONS: Heavy oiling has occurred and additional oil is washing up all along this transect. Fubar creek is totally destroyed and all life is dead.

Kenneth E. Holbrook

CULTURAL RESOURCE EVALUATION FOR OILED SHORELINE

IN-24

Date 4/17/89 Location INGOT ISLAND Site NORTHWESTLocation Prefix IN ~~XXXXXXXXXX~~ Segment # 24 Length 1800 mSurvey Method: Air ☒ (A - indicate on map) justify VERTICAL ROCK + INSUFFICIENT LANDING SPACEGround ☒ (G - indicate on map) justify GENTLY SLOPING BEACH + FRESH WATER

Known cultural resources (AHRS code) _____ Data source _____

Oil conditions/beach visibility HEAVY IMPACT / LOW VISIBILITYWidth of beach zone surveyed 20 m Tree fringe surveyed YESCultural resources observed in beach zone (AHRS code) YES / CCMCultural resources observed in tree fringe (AHRS code) YES / CMT

General observations on segment's site probability:

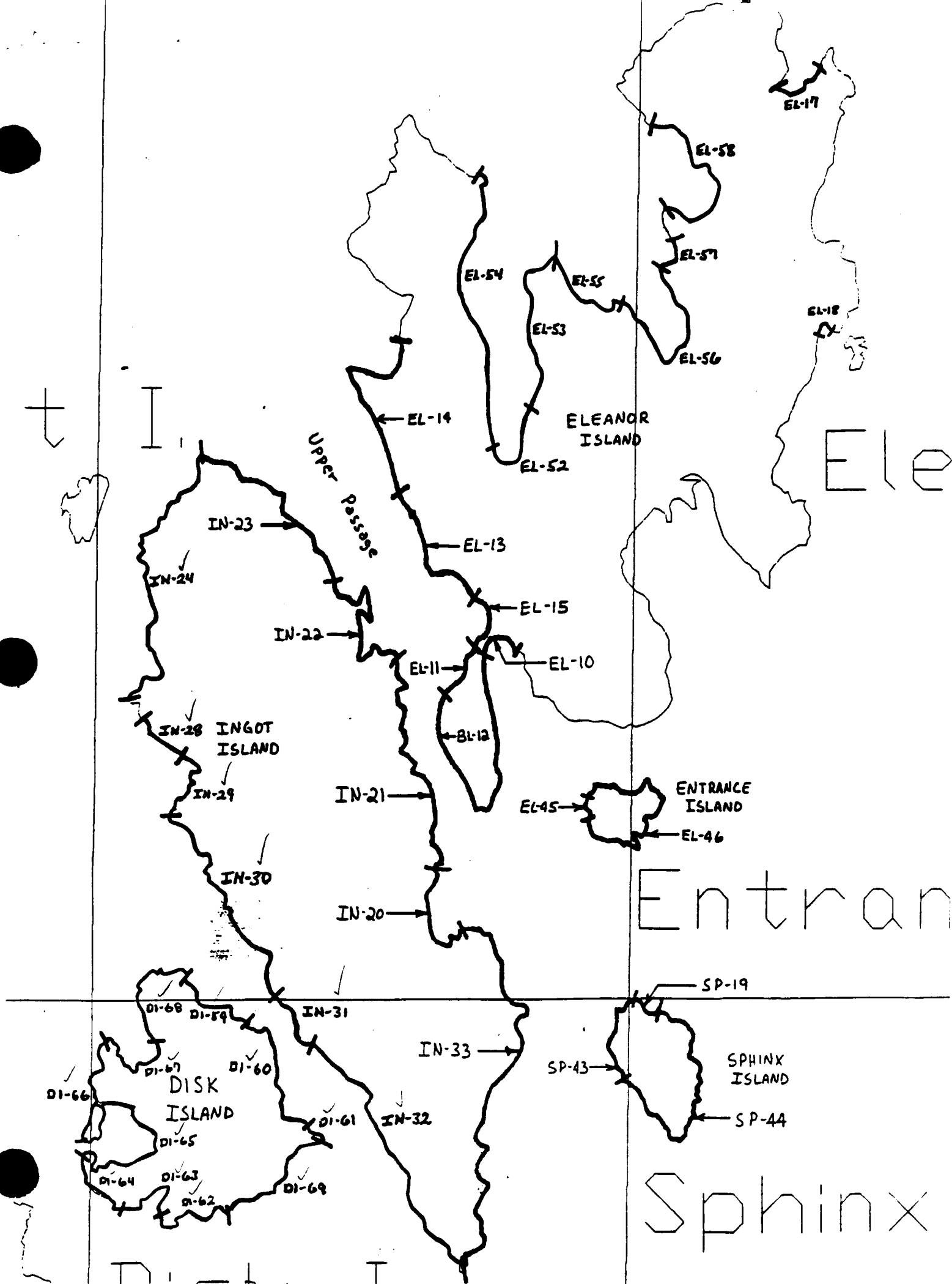
Shore morphology GENTLY SLOPING SAND & GRAVEL BEACH (TWO SMALL BEACHES SEPARATED BY ROCKY HEADLANDS)Fresh water sources TWO SMALL UNNAMED STREAMSExposure SHELTEREDProbability of undiscovered sites in beach zone (circle one) 1 2 3 4 5Monitoring during clean-up needed yes noPhotos: Color Roll # 8 Frames 4 → 24

B/W Roll # _____ Frames _____

Observer(s) JOHN MATTSON & KENNETH HOLBROOKTime survey started 9:00 AM Time survey ended 10:00 AM

Cultural resource considerations/restraints :

IF HERETOFORE UNDISCOVERED CULTURAL MATERIALS ARE UNCOVERED, NOTIFY EXXON ARCHAEOLOGIST C. MOBLEY IMMEDIATELY.*John L. Mattson*



(version 4/28/89)

SHORELINE CLEANUP PROGRAM

DATE: April 28, 1989

SHORELINE SEGMENT IN-28

LOCATION: (see enclosed map) Ingot Island, west shore

ADEC NO. _____ SHORELINE ASSESSMENT DATE: 4-17-89 (helicopter survey only)

Recommended Cleanup Activity(ies):

Low/high pressure washing where accessible.

Priorities Considerations:

Ecological Constraints (from site survey):

Avoid dislodging rockweed and mussel clumps.

Archeological Constraints (from site survey):

If beach at north end of segment becomes oiled and requires cleaning, cultural resource survey is needed. If heretofore undiscovered cultural materials are uncovered during cleanup, contact Exxon archaeologist C. Mobley and take actions prescribed in the Operational Guidelines for Shoreline Cleanup dated 4/21/89 as amended.

Judith E. Britner
State Historic Preservation Officer *

Date: 4/29/89

EXXON: _____

Date: _____

FOSC: _____

Date: _____

* Signature required to satisfy stipulations in Alaska DNR land use permits for tide and submerged lands .

IN-28

SHORELINE OIL EVALUATION

[revised 11 Apr 89]

Date: 4 / 17 / 89

Observer: Ken Holbrook, John Mattson

Time: 11 h 15 m

Weather: Sun/Cloud/Rain/Snow/Fog

LOCATION

LOCATION Ingot Island

SITE Western shore

LOCATION PREFIX IX

SEGMENT NUMBER

LOCATION SUFFIX 28

28

LATITUDE: 6 d m s LONGITUDE: 147 d m s

LENGTH OF SHORELINE SEGMENT: 600 m

ACCESS: Foot/Vehicle/Boat/Barge/Helio/Float Plane

This area surveyed by Helo only

SHORELINE

SHORELINE CHARACTER:

Open Coast ☒

Sheltered Coast ☐

Rock ☒ Y/N

Vertical/High Angle/Low Angle

Sediment ☐ Y/N

Beach/SPit/Cove

SEDIMENT TYPE: B / C / P / G / S / M / D

OIL

LOCATION OF OIL: SU / SP / H / M / L

CONTINUOUS: ☒ Y/N WIDTH OF CONTINUOUS BAND: 1-3 m

PATCHY: 10 / 20 / 30 / 40 / 50 / 60 / 70 / 80 / 90 % coverage

EST. OIL THICKNESS: .5 cm EST. OIL PENETRATION: ? cm

POOLED OIL: ☒ Y/N "FREE" OIL: ☒ Y/N WEATHERED: ☐ Y/N

DOCUMENTATION

VTR: Y/N Tape Number(s) 11

PHOTOGRAPHY: Y/N Roll Number(s) 11

SAMPLE NUMBERS COLLECTED: 11

This area is rocks and cliff with a 1-3 meter bath tube ring of moderate to heavy oiling except for beach at north end of segment.

Ken E. Holbrook

ECOLOGICAL EVALUATION

LOCATION Ingot IslandSITE Western ShoreOBSERVER Ken Holbrook
John MartinTE 4 / 17 / 1989TIME (HHMM) 11:15

TIDE HT. (m) _____

OILED ZONE: SPLASH HIGH MED LOWSUBSTRATUM: ROCKS BOULDER COBBLE GRAVEL SAND MUDLIVE BIOTA / DENSITY (#/m² or %cover-algae):

Fucus _____ Mytilus _____ Balanus _____ Littorina _____

Nucella _____ Pagurus _____ Limpets _____ Halosaccion _____

Gelidium _____ Other _____

Oil Damaged Biota _____

Clean-up Precautions Avoid disturbing Fucus and Mytilus colonies.

OILED ZONE: SPLASH HIGH MED LOW

SUBSTRATUM: ROCKS BOULDER COBBLE GRAVEL SAND MUD

LIVE BIOTA / DENSITY (#/m² or %cover-algae):

Fucus _____ Mytilus _____ Balanus _____ Littorina _____

Nucella _____ Pagurus _____ Limpets _____ Halosaccion _____

Gelidium _____ Other _____

Oil Damaged Biota _____

Clean-up Precautions _____

MAMMALS (#): OTTERS _____ HARBOR _____ DALL _____ OTHER _____

OTHER _____

BIRDS: _____

GENERAL OBSERVATIONS: Aerial survey only.

CULTURAL RESOURCE EVALUATION FOR OILED SHORELINE

Date 4/17/89 Location INGOT ISLAND Site NORTHWESTLocation Prefix IN ~~XXXXXXXXXX~~ Segment # 28 Length 600 mSurvey Method: Air ☒ (A - indicate on map) justify VERTICAL ROCK & INSUFFICIENT LANDING SPACEGround ☐ (G - indicate on map) justify GENTLY SHELVED BEACHES & FRESH WATER

Known cultural resources (AHRS code) _____ Data source _____

Oil conditions/beach visibility HEAVY IMPACT/LOW VISIBILITYWidth of beach zone surveyed NA m Tree fringe surveyed NACultural resources observed in beach zone (AHRS code) NACultural resources observed in tree fringe (AHRS code) NA

General observations on segment's site probability:

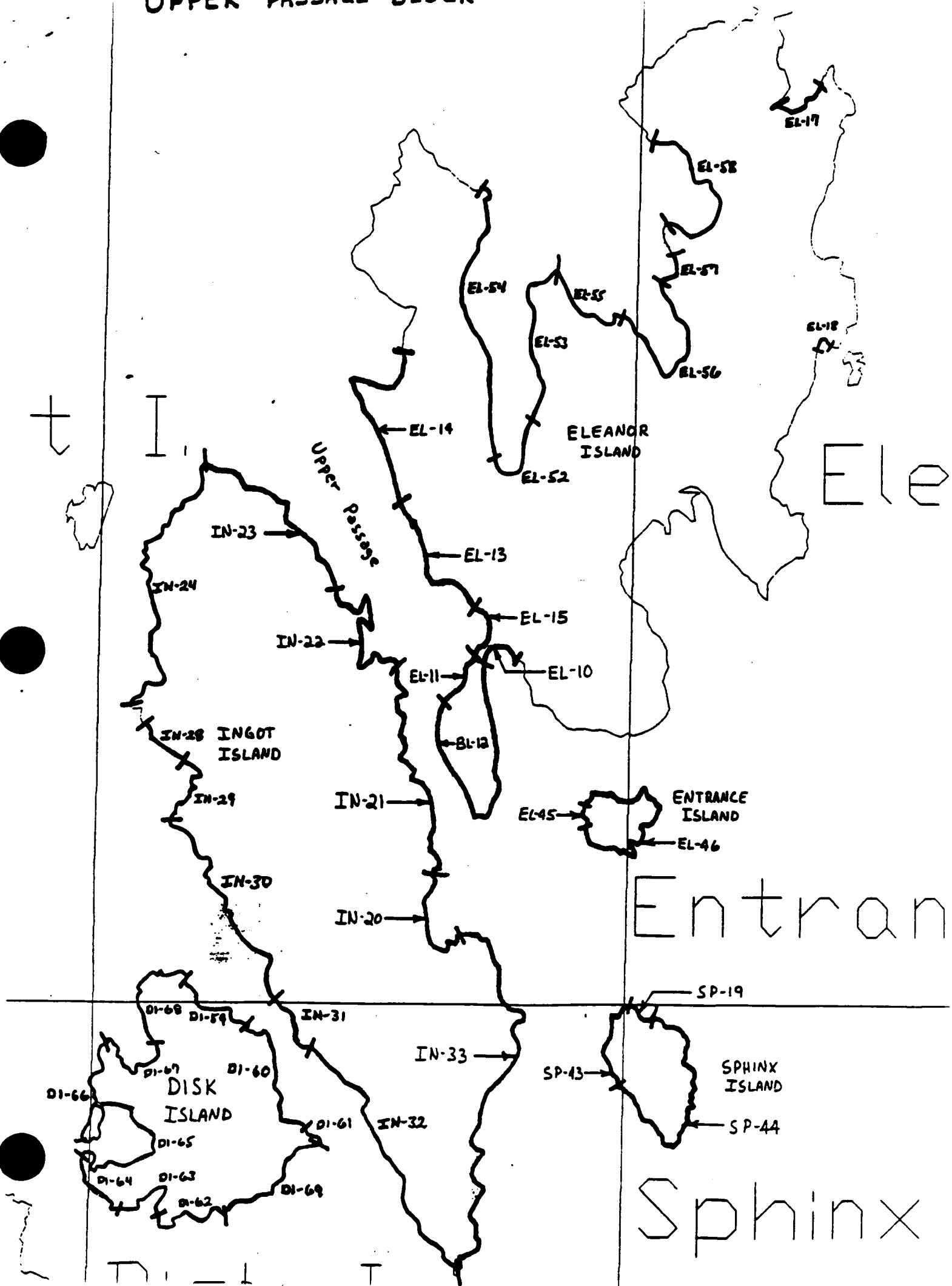
Shore morphology THIS SEGMENT SURVEYED BY HELICOPTER ONLY. - see below: RestraintsFresh water sources FEWExposure OPENProbability of undiscovered sites in beach zone (circle one) (1) 2 3 4 5Monitoring during clean-up needed yes / (no)Photos: Color Roll # _____ Frames NAB/W Roll # _____ Frames NAObserver(s) JOHN MATSON & KENNETH HOLBROCKTime survey started 10:35 AM Time survey ended 10:40

Cultural resource considerations/restraints:

IF HERETOFORE UNDISCOVERED CULTURAL MATERIALS ARE UNCOVERED, NOTIFY
EXXON ARCHAEOLOGIST C. MORLEY IMMEDIATELY. If beach forming
north end of segment becomes oiled and requires cleaning, cultural
resource survey on the ground is needed.

John L. Matson

UPPER PASSAGE



(version 4/28/89)

SHORELINE CLEANUP PROGRAM

DATE: April 28, 1989

SHORELINE SEGMENT IN-29

LOCATION: (see enclosed map) Ingot Island, cove on west shore

ADEC NO. 33 SHORELINE ASSESSMENT DATE: 4-17-89

Recommended Cleanup Activity(ies):

Washing/flooding on gravel beach.
Low/high pressure washing on rocks.

Priorities Considerations:

Ecological Constraints (from site survey):

Avoid dislodging rockweed and mussels, unless dead.

Archeological Constraints (from site survey):

If heretofore undiscovered cultural materials are uncovered during cleanup, contact Exxon archaeologist C. Mobley and take actions prescribed in the Operational Guidelines for Shoreline Cleanup dated 4/21/89 as amended.

John E. Bittner
State Historic Preservation Officer *

Date: 4/29/89

EXXON: _____

Date: _____

FOSC: _____

Date: _____

* Signature required to satisfy stipulations in Alaska DNR land use permits for tide and submerged lands .

(version 4/28/89)

SHORELINE CLEANUP PROGRAM

DATE: April 28, 1989

SHORELINE SEGMENT IN-29

LOCATION: (see enclosed map) Ingot Island, cove on west shore

ADEC NO. 33 SHORELINE ASSESSMENT DATE: 4-17-89

Recommended Cleanup Activity(ies):

Washing/flooding on gravel beach.
Low/high pressure washing on rocks.

Priorities Considerations:

Ecological Constraints (from site survey):

Avoid dislodging rockweed and mussels, unless dead.

Archeological Constraints (from site survey):

If heretofore undiscovered cultural materials are uncovered during cleanup, contact Exxon archaeologist C. Mobley and take actions prescribed in the Operational Guidelines for Shoreline Cleanup dated 4/21/89 as amended.

Justin E. Bitter
State Historic Preservation Officer *

Date: 4/29/89

EXXON: _____

Date: _____

FOSC: _____

Date: _____

* Signature required to satisfy stipulations in Alaska DNR land use permits for tide and submerged lands .

IN-29

SHORELINE OIL EVALUATION

[revised 11 Apr 89]

Date: 4 / 17 / 89

Observer: Ken Hulbrook, John Mattson

Time: 15 h 30 m

Weather: Sun/Cloud/Rain/Snow/Fog

LOCATION

LOCATION Ingot Island

SITE Western Cove

LOCATION PREFIX IN

LOCATION SUFFIX 29

LATITUDE: 6 d m s LONGITUDE: 147 d m s

LENGTH OF SHORELINE SEGMENT: 200 m

ACCESS: Foot/Vehicle/Boat/Barge/Helio/Float Plane
This area surveyed on foot and by air

SHORELINE

SHORELINE CHARACTER:

Open Coast ☒

Sheltered Coast ☐

Rock ☒ Y/N

Vertical/High Angle/Low Angle

Sediment ☐ Y/N

Beach/SPit/Cove

SEDIMENT TYPE: B/C/P/G/S/M/R

OIL

LOCATION OF OIL: SU / SP / H / M / L

CONTINUOUS: ☒ Y/N WIDTH OF CONTINUOUS BAND: 2-30 m

PATCHY: 10 / 20 / 30 / 40 / 50 / 60 / 70 / 80 / 90 % coverage

EST. OIL THICKNESS: .5 cm EST. OIL PENETRATION: 20 cm

POOLED OIL: ☒ Y/N

"FREE" OIL: ☒ Y/N

WEATHERED: ☒ Y/N

DOCUMENTATION

VTR: Y/N Tape Number(s) N

PHOTOGRAPHY: Y/N Roll Number(s) N

SAMPLE NUMBERS COLLECTED: //

This area was surveyed on a north-south line 200 meters long and 30 meters wide on the gravel beach. The area is moderate to heavily oiled with 20 cm of penetration on the gravel beach.

Donna E. Halbrook

IN-29

ECOLOGICAL EVALUATION

John Mattson

LOCATION Ingot IslandSITE Western Cove 29OBSERVER Ken HolbrookDATE 4 / 17 / 1989TIME (HHMM) 1530

TIDE HT. (m) _____

OILED ZONE: SPLASH HIGH MED LOWSUBSTRATUM: ROCKS BOULDER COBBLE GRAVEL SAND MUDLIVE BIOTA / DENSITY (#/m² or %cover-algae):Fucus 30 Mytilus 1-5 Balanus 50 Littorina 5-50Nucella _____ Pagurus 2 Limpets 2 Halosaccion _____

Gelidium _____ Other _____

Oil Damaged Biota biota covered by oil is dead and or dying.

Clean-up Precautions _____

OILED ZONE: SPLASH HIGH MED LOW

SUBSTRATUM: ROCKS BOULDER COBBLE GRAVEL SAND MUD

LIVE BIOTA / DENSITY (#/m² or %cover-algae):

Fucus _____ Mytilus _____ Balanus _____ Littorina _____

Nucella _____ Pagurus _____ Limpets _____ Halosaccion _____

Gelidium _____ Other _____

Oil Damaged Biota _____

Clean-up Precautions _____

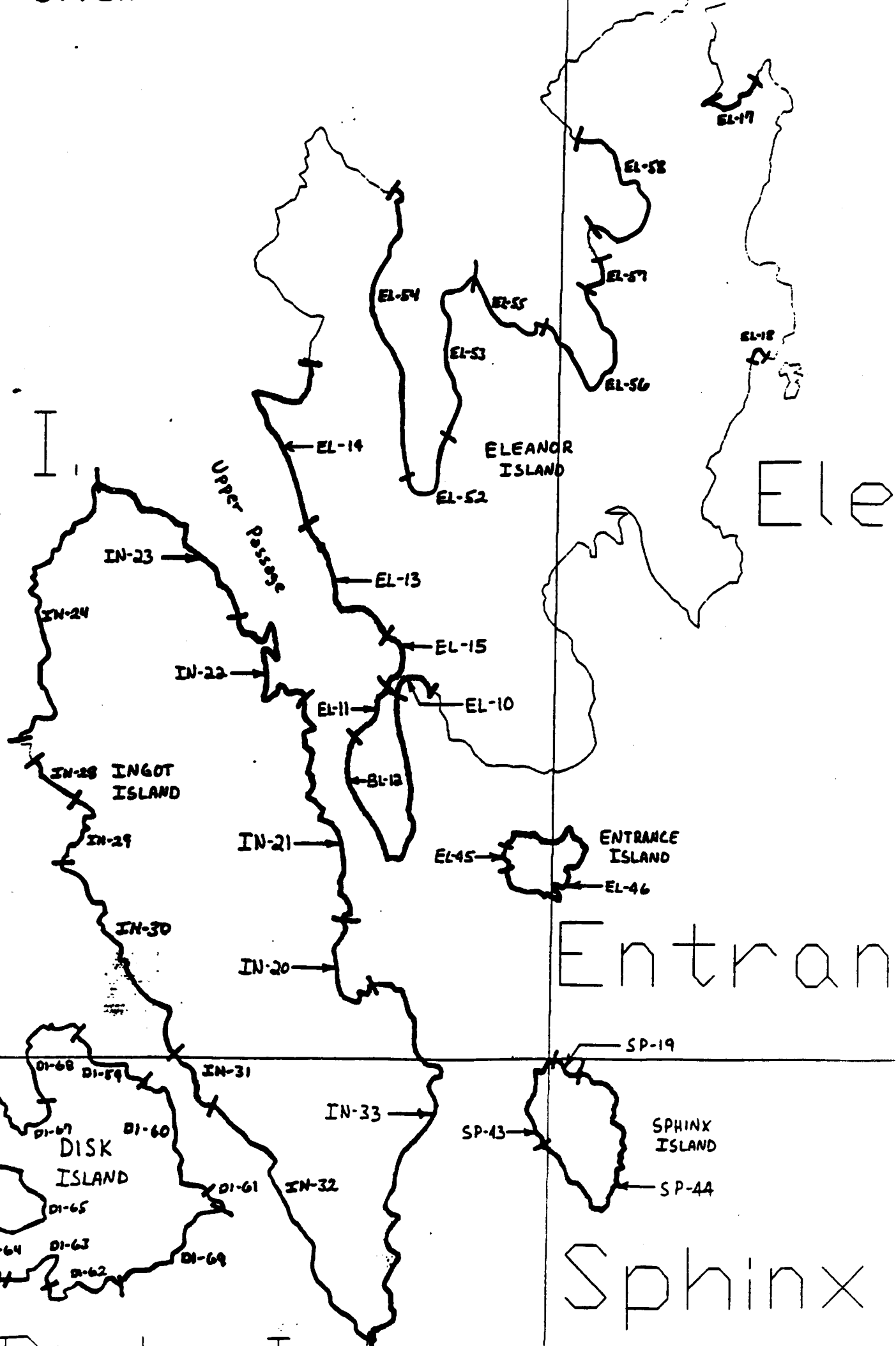
MAMMALS (#): OTTERS 1 HARBOR _____ DALL _____ OTHER _____

OTHER _____

BIRDS: lots of birdsGENERAL OBSERVATIONS: Most areas not oiled and are OK. for now

CULTURAL RESOURCE EVALUATION FOR OILED SHORELINE

Date 4/17/89 Location INGOT ISLAND Site WESTERN SHORE
Location Prefix IN ~~Location Suffix~~ Segment # 29 Length 200 m
Survey Method: Air ☒ (A - indicate on map) justify VERTICAL ROCK & INSUFFICIENT LANDING SPACE
Ground ☒ (G - indicate on map) justify GENTLY SHELVEING BEACH & FRESH WATER
Known cultural resources (AHRS code) _____ Data source _____
Oil conditions/beach visibility HEAVY IMPACT / LOW VISIBILITY
Width of beach zone surveyed 2-30 m Tree fringe surveyed YES
Cultural resources observed in beach zone (AHRS code) NO
Cultural resources observed in tree fringe (AHRS code) CMT
General observations on segment's site probability:
Shore morphology GENTLY SHELVEING BEACH OF SAND & GRAVEL BECOMING ANGULAR BOULDERS TO THE
Fresh water sources SMALL UNNAMED STREAM & 2 TRICKLE FALLS
Exposure PROTECTED
Probability of undiscovered sites in beach zone (circle one) 1 (2) 3 4 5
Monitoring during clean-up needed yes / (no)
Photos: Color Roll # 9 Frames 8 → 15
B/W Roll # _____ Frames _____
Observer(s) JOHN MATTSCH & KENNETH HOLBROOK
Time survey started 10:45 AM Time survey ended 11:02 AM
Cultural resource considerations/restraints :
IF HERETOFORE UNDISCOVERED CULTURAL MATERIALS ARE UNCOVERED, NOTIFY EXXON
ARCHAEOLOGIST C. MOBLEY IMMEDIATELY.



(version 4/28/89)

SHORELINE CLEANUP PROGRAM

DATE: April 28, 1989

SHORELINE SEGMENT IN-30

LOCATION: (see enclosed map) Ingot Island, southwest shore

ADEC NO. _____ SHORELINE ASSESSMENT DATE: 4-17-89

Recommended Cleanup Activity(ies):

Washing/flooding on beaches.
Low/high pressure washing on rocks.

Priorities Considerations:

Ecological Constraints (from site survey):

Avoid dislodging rockweed and mussels.

Archeological Constraints (from site survey):

If heretofore undiscovered cultural materials are uncovered during cleanup, contact Exxon archaeologist C. Mobley and take actions prescribed in the Operational Guidelines for Shoreline Cleanup dated 4/21/89 as amended.

Judith E. Butcher
State Historic Preservation Officer *

Date: 4/29/89

EXXON: _____

Date: _____

FOSC: _____

Date: _____

* Signature required to satisfy stipulations in Alaska DNR land use permits for tide and submerged lands .

IN-30

SHORELINE OIL EVALUATION

[revised 11 Apr 89]

Date: 4 / 17 / 89

Observer: Ken Holbrook, John Mattson

Time: 15 h 30 m

Weather: Sun/cloud/Rain/Snow/Fog

LOCATION

LOCATION Ingot Island

SITE Western

LOCATION PREFIX IN

LOCATION SUFFIX 30

LATITUDE: 6 d m s LONGITUDE: 147 d m s

LENGTH OF SHORELINE SEGMENT: 1200 m

ACCESS: Foot/Vehicle/Boat/Barge/Helio/Float Plane

This area was surveyed by Helo only

SHORELINE

SHORELINE CHARACTER:

Open Coast ✓

Sheltered Coast

Rock Y/N

Vertical/High Angle/Low Angle

Sediment Y/N

Beach/SPit/Cove

SEDIMENT TYPE: B / C / P / G / S / M / R

OIL

LOCATION OF OIL: SU / SP / H / M / L

CONTINUOUS: Y/N WIDTH OF CONTINUOUS BAND: 1-3 m

PATCHY: 10 / 20 / 30 / 40 / 50 / 60 / 70 / 80 / 90 % coverage

EST. OIL THICKNESS: .5 cm EST. OIL PENETRATION: ? cm

POOLED OIL: Y/N

"FREE" OIL: Y/N

WEATHERED: Y/N

DOCUMENTATION

VTR: Y/N Tape Number(s) N

PHOTOGRAPHY: Y/N Roll Number(s) N

SAMPLE NUMBERS COLLECTED: N

This area is very steep rocks and cliffs and has moderate to heavy oiling in a bulk tube ring.

Kenneth E. Holbrook

HUY

IN-30

ECOLOGICAL EVALUATION

LOCATION Inger IslandSITE WesternOBSERVER Ken Holbrook
John MorrisonDATE 4 / 17 / 1989TIME (HHMM) 15:30

TIDE HT. (m) _____

OILED ZONE: SPLASH HIGH MED LOWSUBSTRATUM: ROCKS BOULDER COBBLE GRAVEL SAND MUDLIVE BIOTA / DENSITY (#/m² or %cover-algae):

Fucus _____ Mytilus _____ Balanus _____ Littorina _____

Nucella _____ Pagurus _____ Limpets _____ Halosaccion _____

Gelidium _____ Other _____

Oil Damaged Biota _____

Clean-up Precautions Avoid Introducing Fucus and Mytilus
Colonies.OILED ZONE: SPLASH HIGH MED LOW

SUBSTRATUM: ROCKS BOULDER COBBLE GRAVEL SAND MUD

LIVE BIOTA / DENSITY (#/m² or %cover-algae):

Fucus _____ Mytilus _____ Balanus _____ Littorina _____

Nucella _____ Pagurus _____ Limpets _____ Halosaccion _____

Gelidium _____ Other _____

Oil Damaged Biota _____

Clean-up Precautions _____

MAMMALS (#): OTTERS _____ HARBOR _____ DALL _____ OTHER _____

OTHER _____

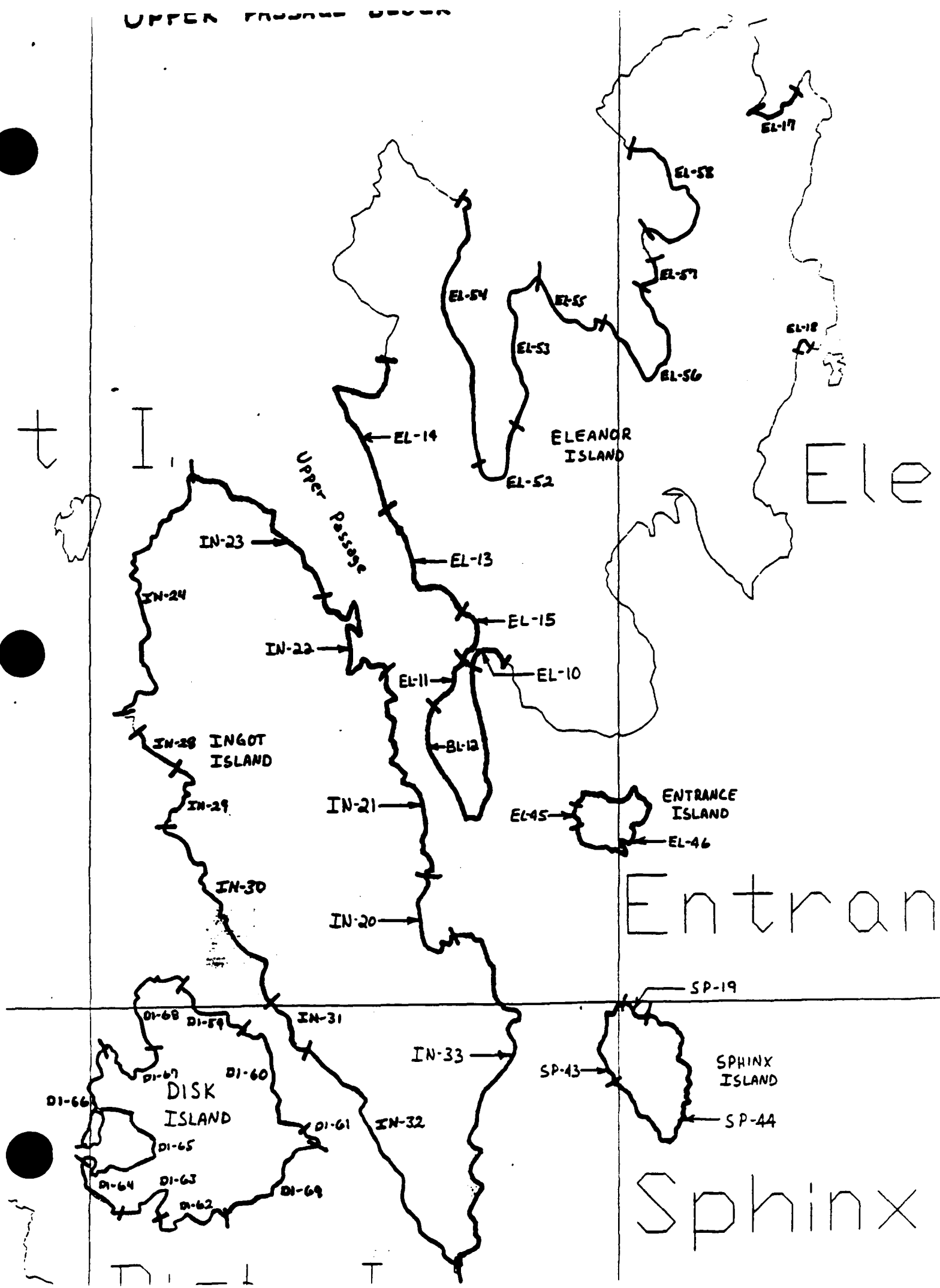
BIRDS: _____

GENERAL OBSERVATIONS: Aerial survey only

(version of 4/17/89)

CULTURAL RESOURCE EVALUATION FOR OILED SHORELINE

Date 4/17/89 Location Ingot Island Site Foul Pass
Location Prefix IN Segment # 30 Length 1200 m
Survey Method: Air ☒ (A - indicate on map)
Ground ☐ (G - indicate on map)
Known cultural resources (AHRS #) NO Data Source _____
Oil conditions/beach visibility Moderate to heavy oil/ NA
Width of beach zone surveyed NA m Tree fringe surveyed NA
Cultural resources observed in beach zone (AHRS code) NA
Cultural resources observed in tree fringe (AHRS code) NA
General observations justifying survey method and segment's site probability:
Shore Profile Vertical rock shoreline and small beaches inaccessible by helicopter.
Fresh Water Sources NA
Sea Exposure Partially protected, partially open
Probability of undiscovered sites in beach zone (circle one) 1 2 3 4 5
Monitoring during cleanup needed yes/no Collection yes/no
Photos: Color Roll # _____ Frames _____
B/W Roll # _____ Frames _____
Observer(s) John L. Mattson and Kenneth E. Holbrook
Time survey started 10:30 Time survey ended 10:45
Cultural resource considerations/restraints:
If heretofore undiscovered cultural materials are uncovered, notify Exxon archaeologist C. Mobley immediately.



(version 4/28/89)

SHORELINE CLEANUP PROGRAM

DATE: May 1, 1989

SHORELINE SEGMENT IN-31

LOCATION: (see enclosed map) Ingot Island, Foul Pass

ADEC NO. _____ SHORELINE ASSESSMENT DATE: 4-17-89

Recommended Cleanup Activity(ies):

Washing/flooding

Low/high pressure washing, warm water if necessary.

Priorities Considerations: .

Heavy oiling, potential for re-oiling, and relative abundance of otters and seals suggest priority cleanup for this area.

Ecological Constraints (from site survey):

*AWA-DEALING
SODAM
ADVISORY* Avoid dislodging live rockweed or mussel clumps do no clean stream mouths. *AVOID STREAMS OR BANKS OF SODAMS UNLESS THE RESOURCE ADVISORY TEAM BIOLOGIST AUTHORIZES CLEANUP ACTIVITIES ON A CASE BY CASE BASIS*

Archeological Constraints (from site survey):

Cleanup work should be monitored closely by on-site archaeologist. Avoid damage to culturally modified trees (to be flagged by archaeologist) during cleanup operations. Consultation with on-site archaeologist during cleanup is recommended.

Charles E. Holmes
State Historic Preservation Officer *

Date: 5/2/89

EXXON: _____

Date: _____

FOSC: _____

Date: _____

* Signature required to satisfy stipulations in Alaska DNR land use permits for tide and submerged lands .

IN-31

SHORELINE OIL EVALUATION

[revised 11 Apr 89]

Date: 4 / 17 / 89

Observer: Ken Holbrook, John Mattson

Time: 1200 - 1500
_____ h _____ m

Weather: Sun/cloud/Rain/Snow/Fog

LOCATION

LOCATION Ingot Island SITE Foul Pass

LOCATION PREFIX IN ~~LOCATION PREFIX~~ 31

LATITUDE: 6 d _____ m _____ s LONGITUDE: 147 d _____ m _____ s

LENGTH OF SHORELINE SEGMENT: 400' m

ACCESS: Foot/Vehicle/Boat/Barge/Helio/Float Plane

This area was surveyed by foot

SHORELINE

SHORELINE CHARACTER:

Open Coast _____

Sheltered Coast ☒

Rock Y/N

Vertical/High Angle/Low Angle

Sediment Y/N

BEach/SPit/Cove

SEDIMENT TYPE: B / C / P / G / S / M / R

OIL

LOCATION OF OIL: SU / SP / H / M / L

CONTINUOUS: Y/N WIDTH OF CONTINUOUS BAND: 3-50 m

PATCHY: 10 / 20 / 30 / 40 / 50 / 60 / 70 / 80 / 90 % coverage

EST. OIL THICKNESS: .5-10 cm EST. OIL PENETRATION: 20+ cm

POOLED OIL: Y/N

"FREE" OIL: Y/N

WEATHERED: Y/N

DOCUMENTATION

VTR: Y/N Tape Number(s) 11

PHOTOGRAPHY: Y/N Roll Number(s) 11

SAMPLE NUMBERS COLLECTED: 11

Foul Pass is a gravel spit and beach with rocks and cliffs at both ends of the spit. The rocks on the south end have very heavy oil with mounds and pools to 15 cm. penetration on the south beach is 20 cm. The central portion is fine with grass flats. The width is 7-50 meters with 10 cm penetration. Over

IN-31

ECOLOGICAL EVALUATION

John Mattson

LOCATION Ingot Island

SITE Fowl Pass 31

OBSERVER Ken Holbrook

TE 4 / 17 / 1989

TIME (HHMM) 1200-1500

TIDE HT. (m) _____

OILED ZONE: SPLASH HIGH MED LOW

SUBSTRATUM: ROCKS BOULDER COBBLE GRAVEL SAND MUD

LIVE BIOTA / DENSITY (#/m² or %cover-algae):

Fucus 20-30 Mytilus 5-10 Balanus 50 Littorina 25-50

Nucella _____ Pagurus 20 Limpets 1-2 Halosaccion _____

Gelidium _____ Other Laminaria in channel, green algae - filamentous and sea lettuce

Oil Damaged Biota within the oil zone all biota is dead and dying

Clean-up Precautions Do not remove fucus hold fast and mussel clumps

OILED ZONE: SPLASH HIGH MED LOW

SUBSTRATUM: ROCKS BOULDER COBBLE GRAVEL SAND MUD

LIVE BIOTA / DENSITY (#/m² or %cover-algae):

Fucus _____ Mytilus _____ Balanus _____ Littorina _____

Nucella _____ Pagurus _____ Limpets _____ Halosaccion _____

Gelidium _____ Other _____

Oil Damaged Biota _____

Clean-up Precautions _____

MAMMALS (#): OTTERS 6 HARBOR 2 DALL _____ OTHER sealion 2

OTHER _____

BIRDS: lots of birds

GENERAL OBSERVATIONS: very productive area. The animals not covered by oil are alive but getting weak.

Ken Holbrook

(version of 4/17/89)

CULTURAL RESOURCE EVALUATION FOR OILED SHORELINE

Date 4/17/89 Location Ingot Island Site Foul Pass
 Location Prefix IN Segment # 31 Length 400 m
 Survey Method: Air ☒ (A - indicate on map)
 Ground ☒ (G - indicate on map)
 Known cultural resources (AHRS #) NO Data Source NO
 Oil conditions/beach visibility Heavy oil & mousse on southend. Stream estuary heavy oil
 Width of beach zone surveyed 3-50 m Tree fringe surveyed YES
 Cultural resources observed in beach zone (AHRS code) NO
 Cultural resources observed in tree fringe (AHRS code) GMT/ERC/HTD/RCS
 General observations justifying survey method and segment's site probability:
 Shore Profile Variable. Gently sloping sand and gravel to large angular boulders
 Fresh Water Sources 2 small unnamed streams

a Exposure ProtectedProbability of undiscovered sites in beach zone (circle one) 1 2 3 4 (5)Monitoring during cleanup needed (yes)/no Collection yes (no)Photos: Color Roll # 10 Frames 1 → 22

B/W Roll # _____ Frames _____

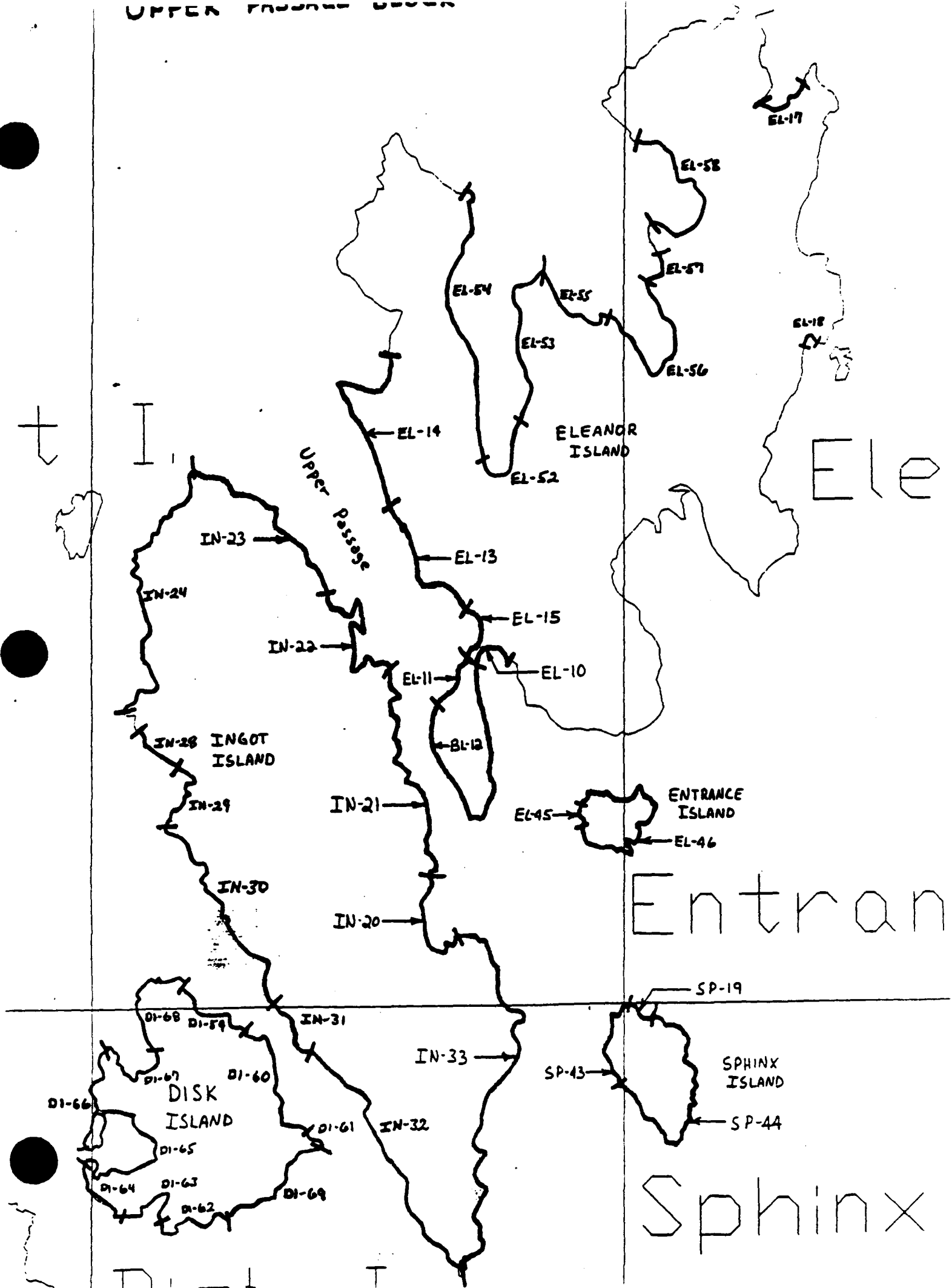
Observer(s) John L. Mattson and Kenneth E. HolbrookTime survey started 12:00 PM Time survey ended 3:00 PM

Cultural resource considerations/restraints:

The quantity of cultural resources present coupled with the observed marine food resources and a remnant forest below the mean high tide line indicate potential for impacts to archaeological material will be high. Cleanup work on this segment should be closely observed by a professional archeologist. Monitoring and supervisory personnel should be alerted and sensitive to the probable discovery of artifacts. If

WP\DATA\CULTURED.SHO

Therefore undiscovered cultural materials are uncovered, notify Exxon archeologist C. Mobley immediately.



(version 4/28/89)

SHORELINE CLEANUP PROGRAM

DATE: April 28, 1989

SHORELINE SEGMENT IN-32

LOCATION: (see enclosed map) Ingot Island, southwest shore

ADEC NO. _____ SHORELINE ASSESSMENT DATE: 4-17-89

Recommended Cleanup Activity(ies):

Washing/flooding

Low/high pressure washing, warm water if necessary.

Priorities Considerations:

Ecological Constraints (from site survey):

Avoid dislodging living rockweed and mussel clumps.

Archeological Constraints (from site survey):

If heretofore undiscovered cultural materials are uncovered during cleanup, contact Exxon archaeologist C. Mobley and take actions prescribed in the Operational Guidelines for Shoreline Cleanup dated 4/21/89 as amended.

Judith E. Butner
State Historic Preservation Officer *

Date: 4/29/89

EXXON: _____

Date: _____

FOSC: _____

Date: _____

* Signature required to satisfy stipulations in Alaska DNR land use permits for tide and submerged lands .

IN-32

SHORELINE OIL EVALUATION

[revised 11 Apr 89]

Date: 4 / 17 / 89

Observer: Ken Holbrook, John Mattson

Time: 15 h 15 m

Weather: Sun/Cloud/Rain/Snow/Fog

LOCATION

LOCATION Ingot Island SITE South west

LOCATION PREFIX IN LOCATION SUFFIX 32 2nd 4/17

LATITUDE: 6 d m s LONGITUDE: 147 d m s

LENGTH OF SHORELINE SEGMENT: 1200 m

ACCESS: Foot/VEHICLE/BOAT/BARGE/HELICO/Float Plane

This area was surveyed by Helo only

SHORELINE

SHORELINE CHARACTER:

Open Coast ☒

Sheltered Coast ☐

Rock ☒ Y/N

Vertical/High Angle/Low Angle

Sediment ☐ Y/N

BEACH/SPIT/COVE

SEDIMENT TYPE: B / C / P / G / S / M / R

OIL

LOCATION OF OIL: SU / SP / H / M / L

CONTINUOUS: ☒ Y/N WIDTH OF CONTINUOUS BAND: 1-5 m

PATCHY: 10 / 20 / 30 / 40 / 50 / 60 / 70 / 80 / 90 % coverage

EST. OIL THICKNESS: .5 cm EST. OIL PENETRATION: ? cm

POOLED OIL: ☒ Y/N

"FREE" OIL: ☒ Y/N

WEATHERED: ☒ Y/N

DOCUMENTATION

VTR: Y/N Tape Number(s) N

PHOTOGRAPHY: Y/N Roll Number(s) N

SAMPLE NUMBERS COLLECTED: 11

This fragment is the south west shore of Ingot Island. The area is rock cliffs and rubble and boulders. The area has moderate to heavy oiling with very heavy oil in the coves. This area has a bath tube ring 1-5 meters wide.

Kenneth E. Holbrook

ECOLOGICAL EVALUATION

John Mattson

LOCATION Ingot IslandSITE SouthwestOBSERVER Ken HolbrookDATE 4 / 17 / 1989TIME (HHMM) 1515

TIDE HT. (m) _____

OILED ZONE: SPLASH HIGH MED LOWSUBSTRATUM: ROCKS BOULDER COBBLE GRAVEL SAND MUDLIVE BIOTA / DENSITY (#/m² or %cover-algae):

Fucus _____ Mytilus _____ Balanus _____ Littorina _____

Nucella _____ Pagurus _____ Limpets _____ Halosaccion _____

Gelidium _____ Other _____

Oil Damaged Biota _____

Clean-up Precautions Leave fucus holdfast and mussel clumps.

OILED ZONE: SPLASH HIGH MED LOW

SUBSTRATUM: ROCKS BOULDER COBBLE GRAVEL SAND MUD

LIVE BIOTA / DENSITY (#/m² or %cover-algae):

Fucus _____ Mytilus _____ Balanus _____ Littorina _____

Nucella _____ Pagurus _____ Limpets _____ Halosaccion _____

Gelidium _____ Other _____

Oil Damaged Biota _____

Clean-up Precautions _____

MAMMALS (#): OTTERS _____ HARBOR _____ DALL _____ OTHER _____

OTHER _____

BIRDS: _____

GENERAL OBSERVATIONS: This area surveyed by Holo only
much oil along shore that was being deposited on the beach.Ken Holbrook

(version of 4/17/89)

CULTURAL RESOURCE EVALUATION FOR OILED SHORELINE

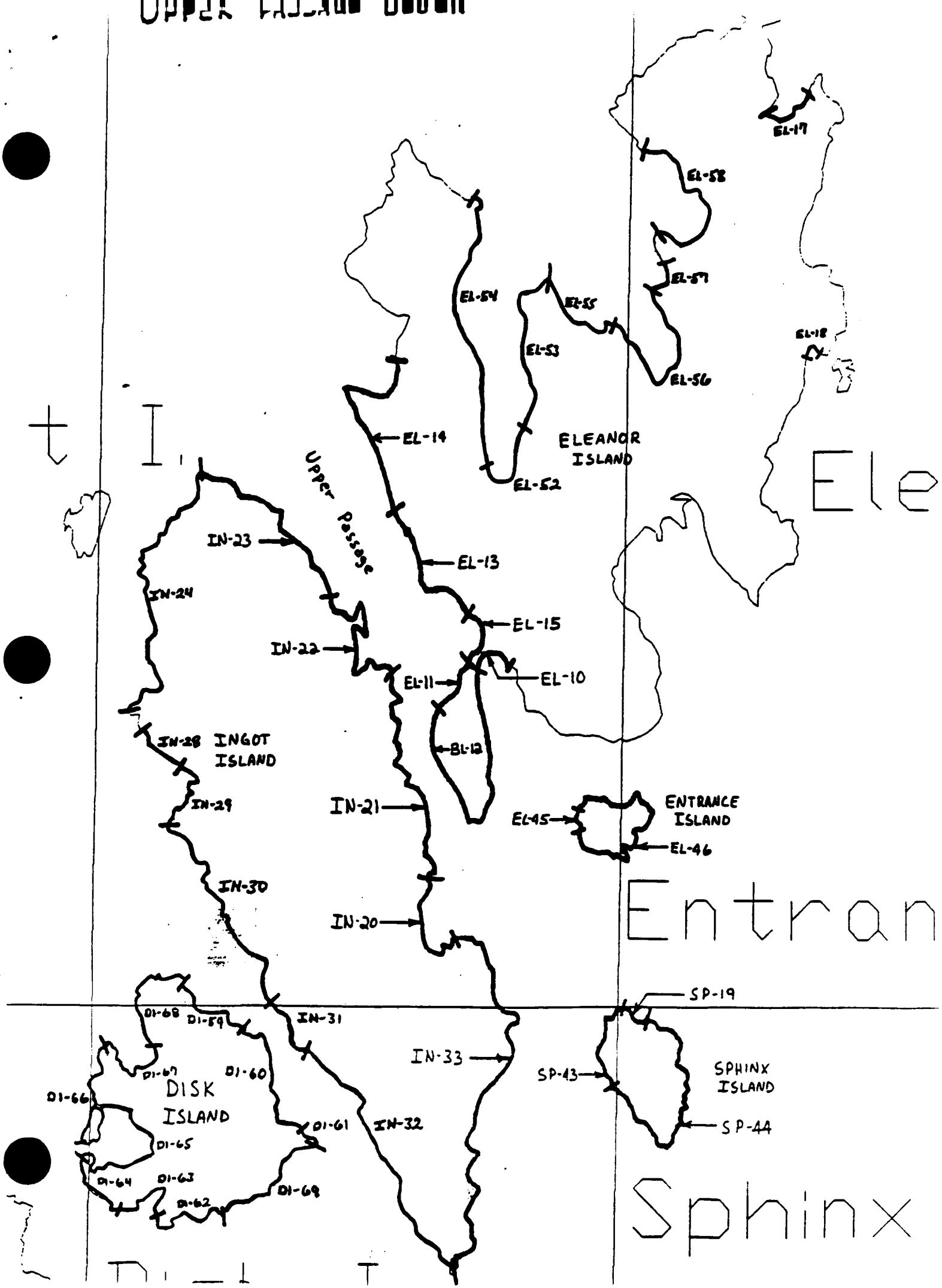
ce 4/17/89 Location Ingot Island Site Southwest
Location Prefix IN Segment # IN-32 Length 1200 m
Survey Method: Air ☒ (A - indicate on map)
Ground ☐ (G - indicate on map)
Known cultural resources (AHRS #) NO Data Source _____
Oil conditions/beach visibility Moderate to heavy oil with very heavy oil in coves, No beaches
Width of beach zone surveyed NA m Tree fringe surveyed NA
Cultural resources observed in beach zone (AHRS code) NO
Cultural resources observed in tree fringe (AHRS code) NO
General observations justifying survey method and segment's site probability:
Shore Profile Shoreline is vertical rock or steep beaches of angular boulders.
Fresh Water Sources NA

a Exposure Open water
Probability of undiscovered sites in beach zone (circle one) 1 2 3 4 5
Monitoring during cleanup needed yes no Collection yes no
Photos: Color Roll # _____ Frames _____
B/W Roll # _____ Frames _____

Observer(s) John Mattson and Kenneth Holbrook
Time survey started 1505 Time survey ended 1515
Cultural resource considerations/restraints:

If heretofore undiscovered cultural materials are uncovered, contact
Essex archaeologist C. Mobley immediately

UPPER PASSAGE DOOR



Ele

Entran

Sphinx

(version 4/28/89)

SHORELINE CLEANUP PROGRAM

DATE: May 1, 1989

SHORELINE SEGMENT DI-59

LOCATION: (see enclosed map) Disk Island

ADEC NO. _____ SHORELINE ASSESSMENT DATE: 4-26-89

Recommended Cleanup Activity(ies):

Don't clean or clean as low priority in a few heavily and moderately oiled places in the upper and middle ITZ. Contamination is surficial only and not thick. Use cold water, high volume, low pressure flushing.

Priorities Considerations:

Ecological Constraints (from site survey):

As a stream
stream
advisory Clean only heavily moussed areas, try not to damage clean organisms at lower intertidal levels. Do Not clean stream mouths. *AVOID*
STREAMS OR BANKS OF STREAMS UNLESS THE RESOURCE ADVISORY
TEAM BIOLOGIST AUTHORIZES CLEANUP ACTIVITIES ON A SITE SPECIFIC
BASIS

Archeological Constraints (from site survey):

Segment to be monitored during cleanup; consultation with on-site archeological monitor during cleanup recommended.

Charles E. Adams
State Historic Preservation Officer *

Date: 5/2/89

EXXON: _____

Date: _____

FOSC: _____

Date: _____

* Signature required to satisfy stipulations in Alaska DNR land use permits for tide and submerged lands .

SHORELINE OIL EVALUATION

[revised 17 Apr 89]

Date: 4 / 26 / 89

Observer: C. Dillon

Time: 10 h 30 m

Weather: Sun Cloud Rain/Snow/Fog

LOCATION

LOCATION Disk Island

SITE Northeast

LOCATION PREFIX DI

SEGMENT NUMBER DI-59

LATITUDE: 6 d m s

LONGITUDE: 147 d m s

LENGTH OF SHORELINE SEGMENT: 200 150 ced m

ACCESS: Foot/Vehicle Boat Barge Helio Float Plane

SHORELINE:

SHORELINE CHARACTER:

BEach SPit/Cove/ /

Wave Exposure: High/Med/Low

Rock Y/N % 20 Vertical/High Angle/Low Angle

SEdiment Y/N % 80 Types: 20 30 20 10 B / C / P / G / S / M / R

Strand Line Y/N Algae/Debris/Logs

OIL

LOCATION OF OIL: SU / SP / H / M / L See comments

CONTINUOUS: Y/N WIDTH OF BAND: m % of Segment

PATCHY: 10/20/30/40/50/60/70/80/90% coverage % of Segment 80

EST. OIL THICKNESS: >.25 cm EST. OIL PENETRATION: surface only

POOLED OIL: Y/N "FREE" OIL: Y/N WEATHERED: Y/N monse

STRAND LINE CLEAN/OILED N/A

SUMMARY OILING: Amount High/Med/Low
Coverage Extensive/Moderate Light

COMMENTS: Most of segment is clean to lightly oiled. Middle portion of segment is moderate with some small heavy patches. Moderate/heavy oil is mostly at the upper 1/4 mid. while the lower ITZ is very light or clean.

ECOLOGICAL EVALUATION

LOCATION: Disk Is. SITE: North East OBSERVER: SM BANLOCATION PREFIX: DI SEG. NO.: DI 59 LENGTH: ~~150~~ 200 (M)DATE: 4/26/89 TIME (HHMM): 0935 TIDE HT.: 2 1/2 (M)OILED ZONE: Splash High Medium LowSUBSTRATUM: Rocks Boulder Cobble Gravel Sand Mud

LIVE BIOTA

Fucus (algae): Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/NMytilus (Mussels): Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/NVery dense in some areas, covered with morse but still aliveBalanus (Barnacles): Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/NDense in some areas, some still alive apparentlyLittorina
Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/NSeveral living organisms in lightly oiled areas, none in heavily oiled areaLimpets: Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/NSame as Littorina, found near Littorina patchesOTHER OBSERVATIONS: Salastrea in shallow water, looks okCLEANUP PRECAUTIONS: Clean only heavily mounded areas (see map),
try not to damage clean organisms below morse at
high tide line.MAMMALS: Otters _____ Harbor Seals _____ Sea Lions _____ Whales _____
Other _____

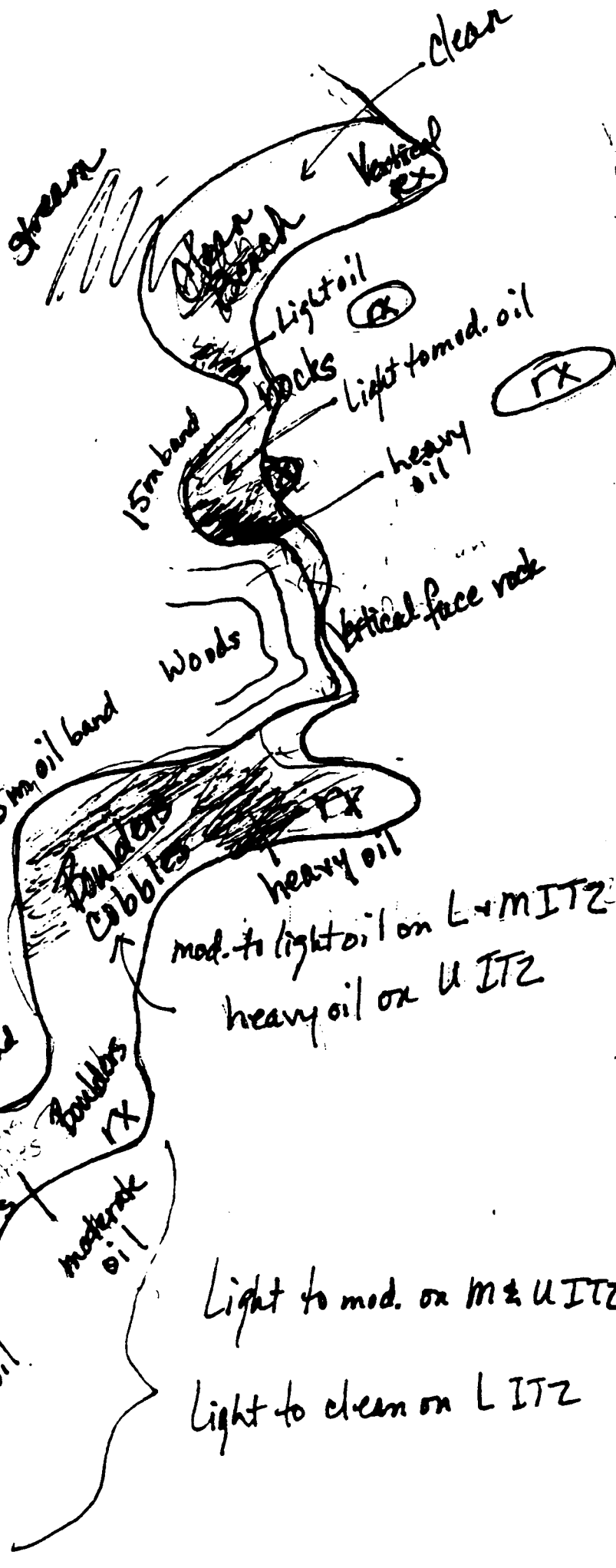
BIRDS: _____

GENERAL OBSERVATIONS: light to moderate oiling, probably
low priority.

CULTURAL RESOURCE EVALUATION FOR OILED SHORELINE

Date 4/26/89 Location Disk Island Site Northeast
Location Prefix 01 Segment # 01-59 Length 200 m
Survey Method: Air _____ (A - indicate on map)
Ground 3 (G - indicate on map)
Known cultural ^{boat} resources (AHRS #) NONE Data Source NONE
Oil conditions/beach visibility oil light to moderate with a few heavy patches
Width of beach zone surveyed 2-6 m Tree fringe surveyed 10
Cultural resources observed in beach zone (AHRS code) PAD
Cultural resources observed in tree fringe (AHRS code) CMTs
General observations justifying survey method and segment's site probability:
Shore Profile moderately to steeply sloped beaches with mostly large boulders - some rock outcrops.
Fresh Water Sources at least two streams
Sea Exposure northeast sheltered by Ingot Island
Probability of undiscovered sites in beach zone (circle one) 1 2 3 4 5
Monitoring during cleanup needed yes no Collection yes/no
Photos: Color Roll # _____ Frames _____
B/W Roll # _____ Frames _____
Observer(s) C. Wilson
Time survey started 0935 Time survey ended 1030
Cultural resource considerations/restraints:
[REDACTED]
[REDACTED]
[REDACTED] Segment to be monitored during cleanup;
consultation with on-site archaeological monitor during cleanup recommended

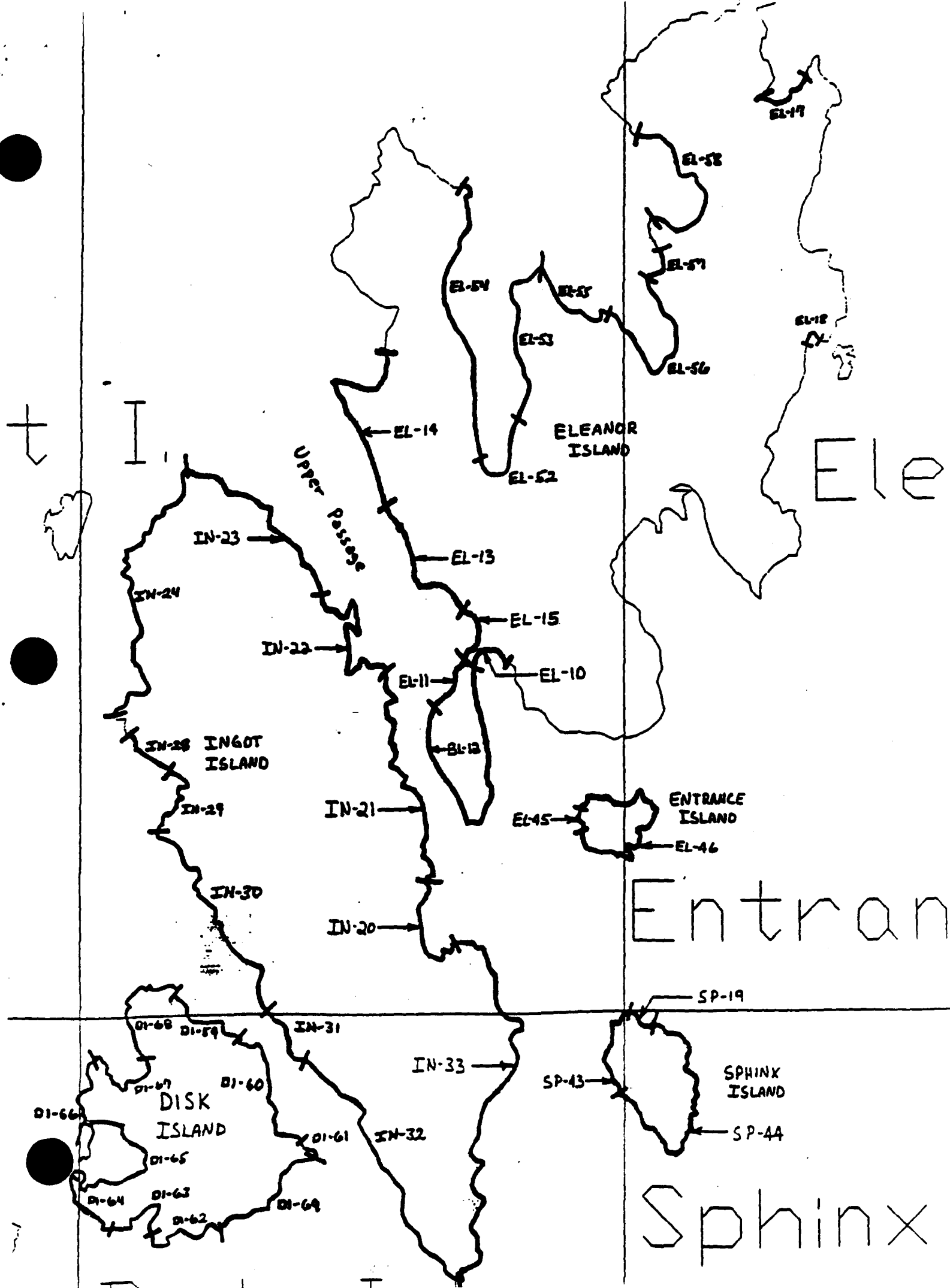
DI-59



↑ N

Ingot Island

- mostly Pebble/Cobble Beach
- very wide at low tide
- Continuous oil band 5-10 m wide moderate to lightly oiled



(version 4/28/89)

SHORELINE CLEANUP PROGRAM

DATE: April 28, 1989

SHORELINE SEGMENT DI-60

LOCATION: (see enclosed map) Disk Island

ADEC NO. 34 SHORELINE ASSESSMENT DATE: 4-26-89

Recommended Cleanup Activity(ies):

Cold water, high volume, low pressure flushing of middle and upper ITZ beach at extreme north of segment and next beach south

Priorities Considerations:

Clean on either side of double stream beach.
Clean at high to medium tide to avoid oiling of lower ITZ.

Ecological Constraints (from site survey):

Do not clean in stream mouths.
Avoid dislodging Fucus holdfasts and mussel clumps.

Archeological Constraints (from site survey):

If heretofore undiscovered cultural materials are uncovered during cleanup, contact Exxon archaeologist C. Mobley and take actions prescribed in the Operational Guidelines for Shoreline Cleanup dated 4/21/89 as amended.

Mark E. Holman
State Historic Preservation Officer *

Date: 5/2/89

EXXON: _____

Date: _____

FOSC: _____

Date: _____

* Signature required to satisfy stipulations in Alaska DNR land use permits for tide and submerged lands .

~~SHORELINE OIL EVALUATION~~
[revised 13 Apr 89]
SHORELINE OIL EVALUATION

Date: 4 / 26 / 89
Time: 10 / 45
11 h 00 m

Observer: Dillon

Weather: Sun/Cloud/Rain/Snow/Fog

LOCATION

LOCATION Disk Island

SITE East

LOCATION PREFIX DI

SEGMENT NUMBER DI-60

LATITUDE: 6 ___ d ___ m ___ s

LONGITUDE: 147 d ___ m ___ s

LENGTH OF SHORELINE SEGMENT: 300 m

ACCESS: Foot/Vehicle/Boat/Barge/HELIO/Float Plane

SHORELINE:

SHORELINE CHARACTER:

Beach SPit/Cove/___/___

Wave Exposure: High/Med/Low

Rock Y/N % 60 Vertical/High Angle/Low Angle

Sediment Y/N % 40 Types: B / C / P / G / S / M / R

Strand Line Y/N Algae/Debris/Logs

OIL

LOCATION OF OIL: SU / SP H / M / L only about 1/2 of M ITZ oiled

CONTINUOUS: Y/N WIDTH OF BAND: 3 m % of Segment 30

PATCHY: 10/20/30/40/50/60/70/80/90% coverage % of Segment 30

EST. OIL THICKNESS: 2.5 cm EST. OIL PENETRATION: surface only

POOLED OIL: Y/N "FREE" OIL: Y/N WEATHERED: Y/N

STRAND LINE CLEAN/OILED N/A

SUMMARY OILING: Amount High/Med/Low
Coverage Extensive/Moderate/Light

COMMENTS: Complete segment is moderately oiled along upper 1/2 of ITZ. Lower 1/2 of ITZ is clean to lightly oiled

ECOLOGICAL EVALUATION

LOCATION: DISK EAST IS SITE: EAST OBSERVER: Sm Ben
 LOCATION PREFIX: DI SEG. NO.: X DI 60 LENGTH: 300 (M)
 DATE: 4/26/89 TIME (HHMM): 1050 TIDE HT.: 1-2 ft (M)
 OILED ZONE: Splash High Medium Low
 SUBSTRATUM: Rocks Boulder Cobble Gravel Sand Mud

LIVE BIOTA

Fucus (algae): Patchy ☒ Y/N Contin. Y/N Dense ☒ Y/N Sparse Y/N None Y/N

Fucus at high tide line is mossed

Mytilus (Mussels): Patchy Y/N Contin. Y/N Dense Y/N Sparse ☒ Y/N None Y/N

Some are dead

Balanus (Barnacles): Patchy ☒ Y/N Contin. Y/N Dense Y/N Sparse ☒ Y/N None Y/N

Some are apparently dead

Littorina

Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None ☒ Y/N

None seen

Limpets: Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None ☒ Y/N

None seen

OTHER OBSERVATIONS: Sealater in water

Beach in area of streams was clean

CLEANUP PRECAUTIONS: try to clean only upper intertidal
and do not damage lower intertidal organisms

MAMMALS: Otters Harbor Seals X Sea Lions Whales
 Other Seals seen on rocks, sluggish, sick

BIRDS:

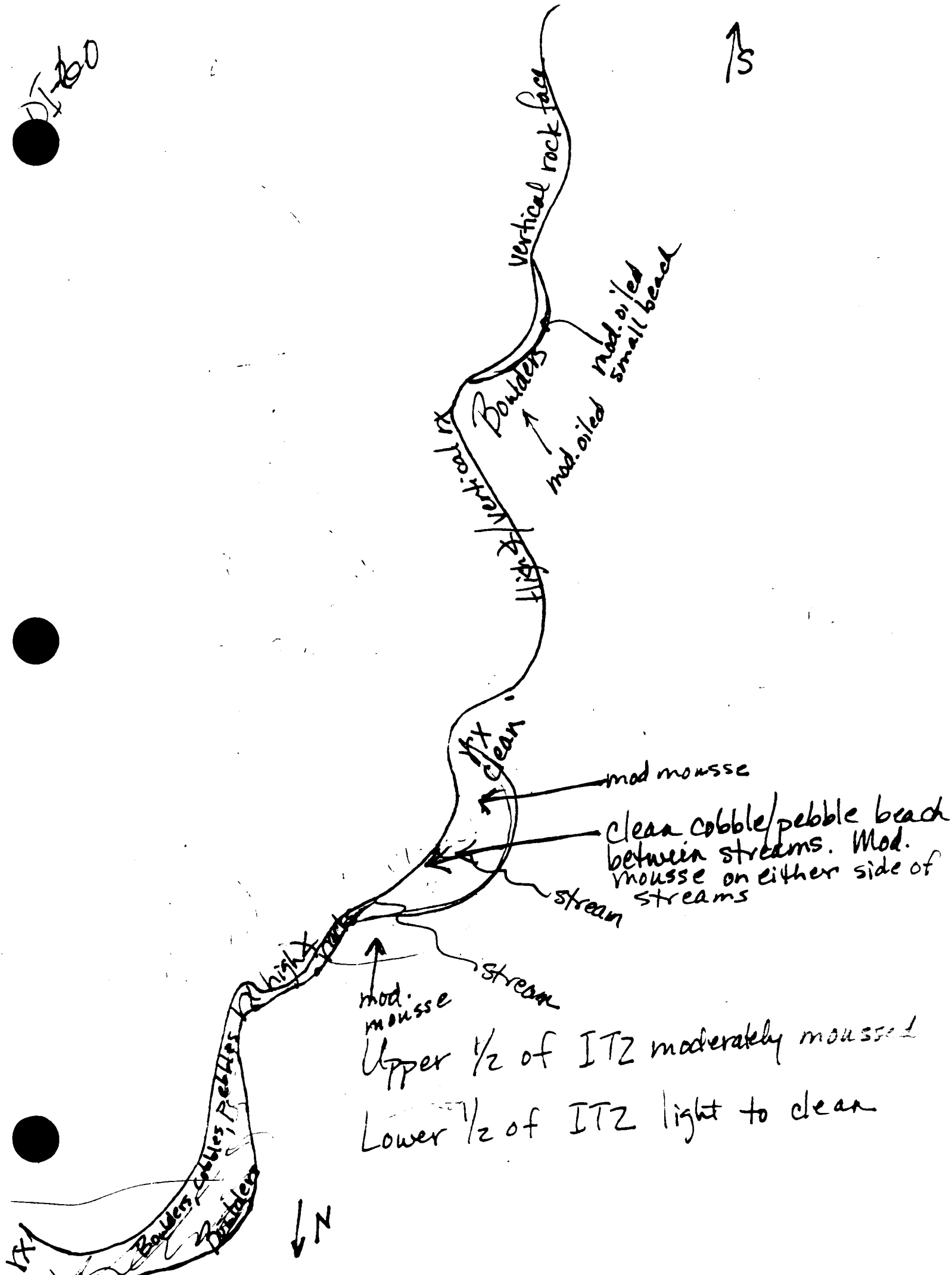
GENERAL OBSERVATIONS: Moderate to light oiling

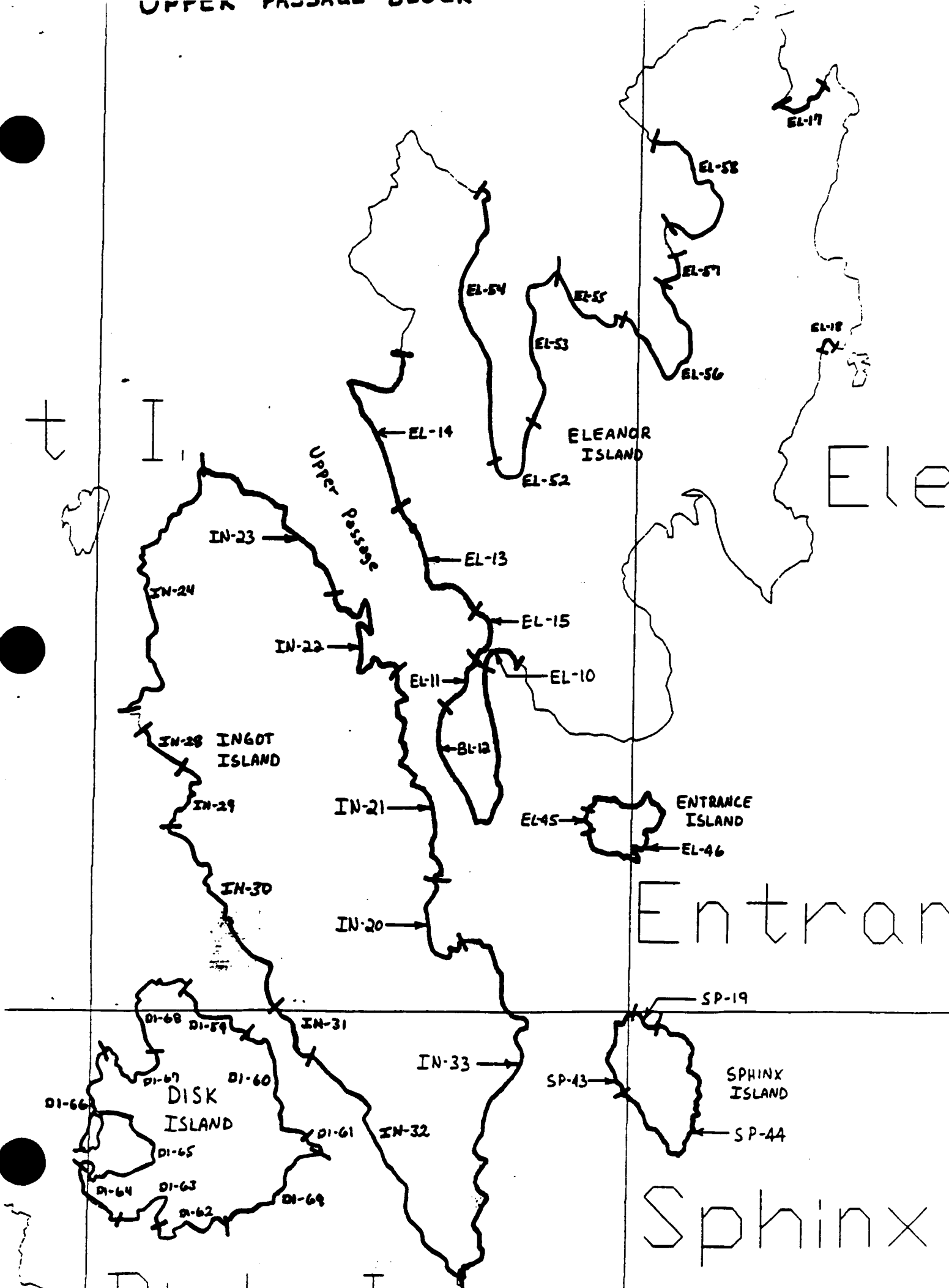
CULTURAL RESOURCE EVALUATION FOR OILED SHORELINE

Date 4/26/89 Location Dink Site Coast
Location Prefix 01 Segment # DI-60 Length 300m
Survey Method: Air _____ (A - indicate on map)
Ground 2 (G - indicate on map)
Known cultural resources (AHRS #) Boat 304 Data Source None
Oil conditions/beach visibility moderate to light
Width of beach zone surveyed 1-3m Tree fringe surveyed 10m
Cultural resources observed in beach zone (AHRS code) None
Cultural resources observed in tree fringe (AHRS code) None
General observations justifying survey method and segment's site probability:
Shore Profile fairly steep beachy with steep places between dunes, many boulders, small (narrow, shallow).
Fresh Water Sources two streams
Sea Exposure northwest sheltered by Tugot
Probability of undiscovered sites in beach zone (circle one) 1 2 3 4 5
Monitoring during cleanup needed yes no Collection yes no
Photos: Color Roll # _____ Frames _____
B/W Roll # _____ Frames _____
Observer(s) C. Wilson
Time survey started 1045 Time survey ended 1145
Cultural resource considerations/restraints:
If hereafter undiscovered cultural resources are identified during cleanup notify Exxon archeologist C. Mobley immediately.

DI 200

↑ S





(version 4/28/89)

SHORELINE CLEANUP PROGRAM

DATE: April 28, 1989

SHORELINE SEGMENT DI-61

LOCATION: (see enclosed map) Disk Island

ADEC NO. _____ SHORELINE ASSESSMENT DATE: 4-26-89

Recommended Cleanup Activity(ies):

Cold water, high volume, (high pressure okay) flushing on north side of stream only.

Priorities Considerations: .

Ecological Constraints (from site survey):

Clean upper ITZ only. Try not to disturb healthy organisms in lower ITZ. May have to clean at high tide.

Avoid stream mouth. *AVOID STREAMS OR BANKS OF STREAMS UNLESS THE RESOURCE ADVISORY TEAM BIOLOGIST AUTHORIZES CLEANUP ACTIVITIES ON A SITE SPECIFIC BASIS*

Archeological Constraints (from site survey):

If heretofore undiscovered cultural materials are uncovered during cleanup, contact Exxon archaeologist C. Mobley and take actions prescribed in the Operational Guidelines for Shoreline Cleanup dated 4/21/89 as amended.

*ANADZOUSS
STREAM
ADVISORY*
Arden E. Holmes
State Historic Preservation Officer *

Date: 5/2/89

EXXON: _____

Date: _____

FOSC: _____

Date: _____

* Signature required to satisfy stipulations in Alaska DNR land use permits for tide and submerged lands .

[revised 17 Apr 89]

SHORELINE OIL EVALUATION

Date: 4 / 26 / 89

Observer: C. Dillon

Time: 11 h 30 m

Weather: Sun/Cloud/Rain/Snow/Fog

LOCATION

LOCATION Disk Island

SITE Southeast

LOCATION PREFIX DI

SEGMENT NUMBER DI-61

LATITUDE: 6 d m s

LONGITUDE: 147 d m s

LENGTH OF SHORELINE SEGMENT: 30 m

ACCESS: Foot/Vehicle/Boat/Barge/Helio/Float Plane

SHORELINE:

lowtide

SHORELINE CHARACTER:

Beach/SPit/Cove/ /

Wave Exposure: High/Med/Low

Rock (Y)N % 20 Vertical/High Angle/Low Angle

Sediment (Y)N % 80 Types: ^{25 30 25}B / C / P / G / S / M / R

Strand Line Y/N Algae/Debris/Logs

OIL

LOCATION OF OIL: SU / SP / H / M / L

CONTINUOUS: Y/N WIDTH OF BAND: 10 m % of Segment 50

PATCHY: 10/20/30/40/50/60/70/80/90% coverage % of Segment

EST. OIL THICKNESS: 1 cm EST. OIL PENETRATION: surface only

POOLED OIL: (Y)N "FREE" OIL: (Y)N WEATHERED: (Y)N

STRAND LINE CLEAN/OILED

SUMMARY OILING: Amount High/Med/Low
Coverage Extensive/Moderate/Light

COMMENTS: Only portion of segment North of stream is oiled but recommend cleaning. Diagram on next page.

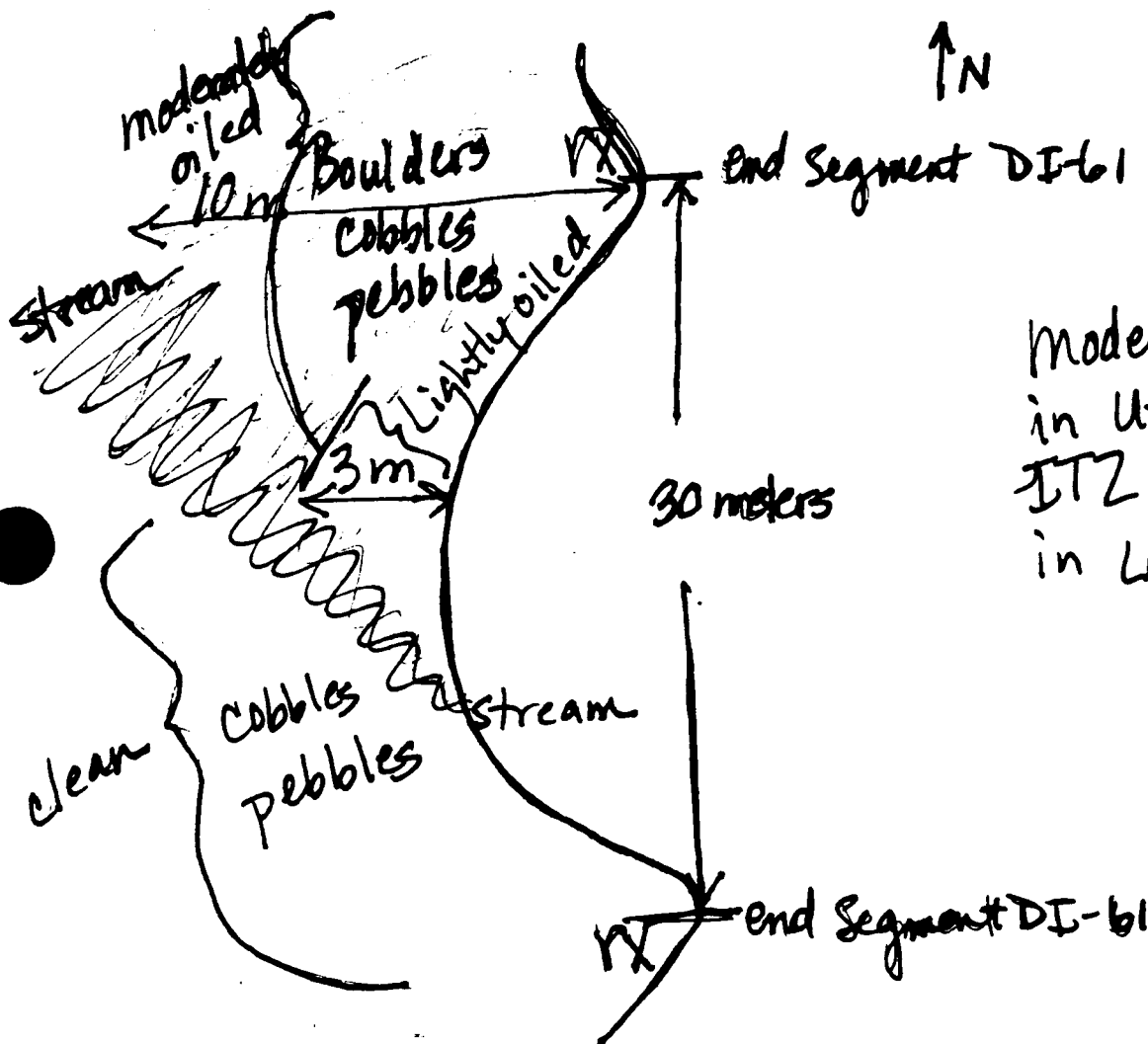
DOCUMENTATION:

MAP/Aerial photo marking segment boundaries None

VTR: Y/(N) Tape Number(s) _____

PHOTOGRAPHY: Y/(N) Roll Number(s) _____

SAMPLE NUMBERS COLLECTED: None



Moderate oiling (mones
in upper and middle
ITZ; Lightly oiled
in lower ITZ

ECOLOGICAL EVALUATION

LOCATION: Disk Island SITE: South EAST OBSERVER: SMB
 LOCATION PREFIX: DI SEG. NO.: 801-61 LENGTH: 30m (M)
 DATE: 4/26/89 TIME (HHMM): 1130 TIDE HT.: -1/100 (M)
 OILED ZONE: Splash High Medium Low
 SUBSTRATUM: Rocks Boulder Cobble Gravel Sand Mud

LIVE BIOTA

Fucus (algae): Patchy ☒ Y/N Contin. ☒ Y/N Dense ☒ Y/N Sparse Y/N None Y/N

*Fucus is dense at Low tide line, Patchy in upper ITZ

Mytilus (Mussels): Patchy ☒ Y/N Contin. Y/N Dense ☒ Y/N Sparse Y/N None Y/N

Mussels dead in Upper ITZ, healthy on rocks in low ITZ

Balanus (Barnacles): Patchy ☒ Y/N Contin. Y/N Dense ☒ Y/N Sparse Y/N None Y/N

Balanus in mounded zone appear to be dead

Littorina

Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None ☒ Y/N

None seen

Limpets: Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None ☒ Y/N

None seen

OTHER OBSERVATIONS: _____

CLEANUP PRECAUTIONS: Clean at high tide or be careful
Not to damage organisms in lower ITZ

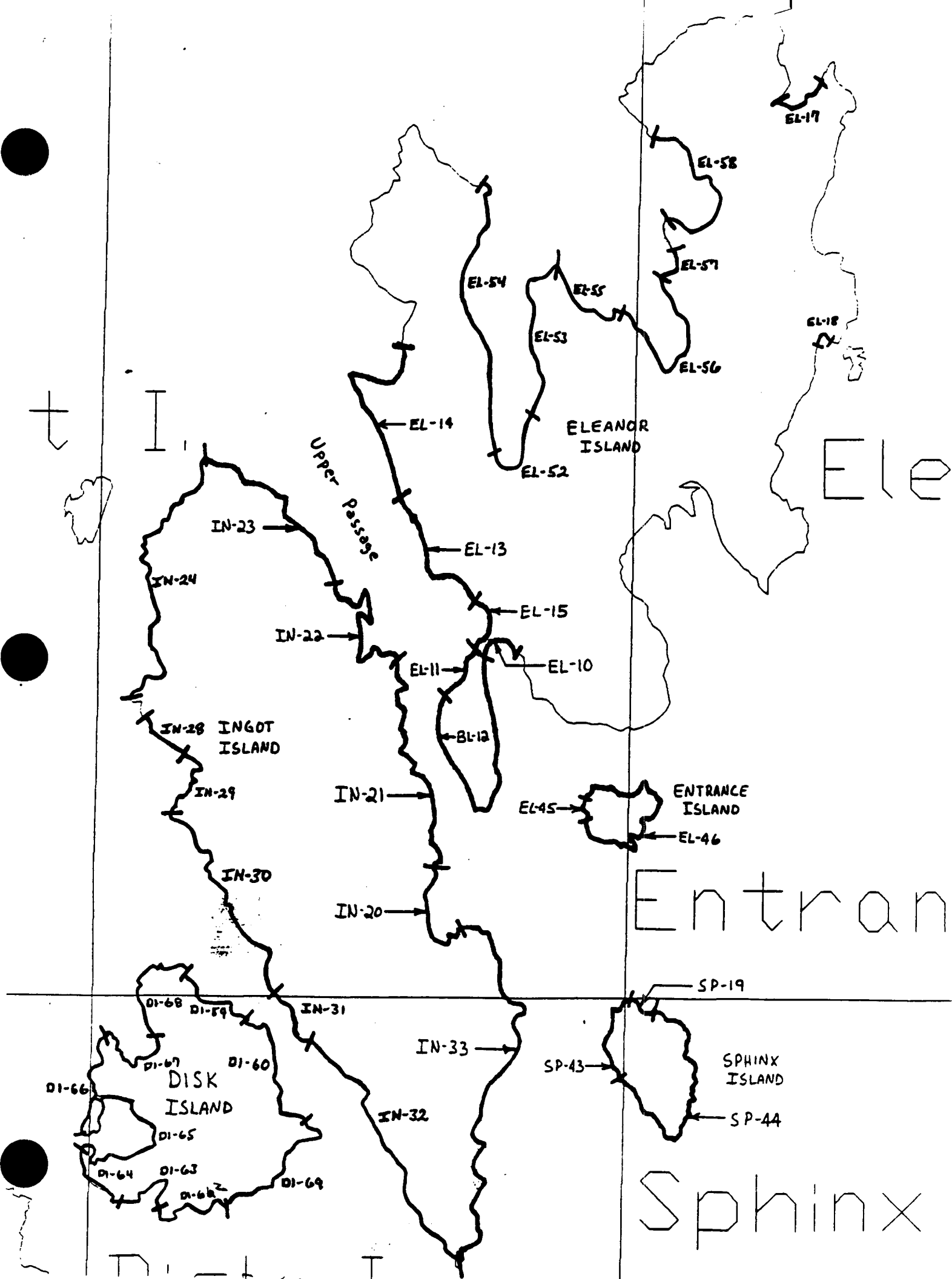
MAMMALS: Otters _____ Harbor Seals _____ Sea Lions _____ Whales _____
 Other _____

BIRDS: _____

GENERAL OBSERVATIONS: Moderately oiled in strand zone
and upper intertidal

CULTURAL RESOURCE EVALUATION FOR OILED SHORELINE

Date 4/26/89 Location Duck Island Site southeast
Location Prefix DI Segment # DI-61 Length 30 m
Survey Method: Air _____ (A - indicate on map)
Ground ✓ (G - indicate on map)
Known cultural resources (AHRS #) SEW-235 Data Source AHRS map
Oil conditions/beach visibility noth visible island; south not
Width of beach zone surveyed 1-7 m Tree fringe surveyed 10
Cultural resources observed in beach zone (AHRS code) None
Cultural resources observed in tree fringe (AHRS code) None
General observations justifying survey method and segment's site probability:
Shore Profile mostly sandy moderately sloped beach, upland
moderately sloped.
Fresh Water Sources stream
Sea Exposure open to southwest
Probability of undiscovered sites in beach zone (circle one) 1 2 3 4 5
Monitoring during cleanup needed yes/no Collection yes/no
Photos: Color Roll # _____ Frames _____
B/W Roll # _____ Frames _____
Observer(s) C. Wilson
Time survey started _____ Time survey ended _____
Cultural resource considerations/restraints:
If heretofore undiscovered cultural resources are
uncovered during cleanup notify Exxon archaeologist,
C. Mobley immediately.



(version 4/28/89)

SHORELINE CLEANUP PROGRAM

DATE: April 28, 1989

SHORELINE SEGMENT DI-62

LOCATION: (see enclosed map) Disk Island

ADEC NO. _____ SHORELINE ASSESSMENT DATE: 4-26-89

Recommended Cleanup Activity(ies):

On middle, more heavily oiled sections, high temp., high pressure, high volume flushing may be used.

On furthest beach south, use coolest temp., least force flushing possible for effective cleaning.

Priorities Considerations:

Lower ITZ and stream areas require less cleaning but will be difficult to avoid given the extent of oil contamination of this segment. *AVOID STREAMS OR BANKS OF STREAMS UNLESS THE RESOURCE ADVISORY TEAM BIOLOGIST AUTHORIZES CLEANUP ACTIVITIES ON A SITE-SPECIFIC BASIS.*

Ecological Constraints (from site survey):

Try not to damage areas of healthy Fucus (golden). Some areas of this segment are more heavily oiled. Organisms surviving in lighter areas should not be disturbed if possible.

Archeological Constraints (from site survey):

If heretofore undiscovered cultural materials are uncovered during cleanup, contact Exxon archaeologist C. Mobley and take actions prescribed in the Operational Guidelines for Shoreline Cleanup dated 4/21/89 as amended.

Charles J. Adams
State Historic Preservation Officer *

Date: 5/2/89

EXXON: _____

Date: _____

FOSC: _____

Date: _____

* Signature required to satisfy stipulations in Alaska DNR land use permits for tide and submerged lands .

[revised 13 Apr 89]

SHORELINE OIL EVALUATION

Date: 4 / 26 / 89

Observer: C. Dillon

Time: 12 h 15 m

Weather: Sun/Cloud/Rain/Snow/Fog

LOCATION

LOCATION Disk Island

SITE South

LOCATION PREFIX DI

SEGMENT NUMBER DI-62

LATITUDE: 6 ___ d ___ m ___ s

LONGITUDE: 147 d ___ m ___ s

LENGTH OF SHORELINE SEGMENT: 250 m

ACCESS: Foot/Vehicle/Boat/Barge/Helio/Float Plane

SHORELINE:

at low tide

SHORELINE CHARACTER:

BEach/SPit/Cove/___/___

Wave Exposure: High/Med/Low

Rock (Y)N % 20 Vertical High Angle/Low Angle

SEdiment (Y)N % 80 Types: B / C / P / G / S / M / R

Strand Line (Y)N Algae/Debris/Logs at Southernmost portion

OIL

LOCATION OF OIL: SU / SP / H / M / L

CONTINUOUS: (Y)N WIDTH OF BAND: 3 - 20 m % of Segment 90

PATCHY: 10/20/30/40/50/60/70/80/90% coverage % of Segment ___

EST. OIL THICKNESS: 1-4 cm EST. OIL PENETRATION: 6 cm

POOLED OIL: (Y)N "FREE" OIL: (Y)N WEATHERED: (Y)N

STRAND LINE CLEAN/OILED

SUMMARY OILING: Amount High/Med/Low
Coverage Extensive/Moderate/Light

COMMENTS: Diagram on next page.

ECOLOGICAL EVALUATION

LOCATION: Disk Is. SITE: South OBSERVER: SMBLOCATION PREFIX: DI SEG. NO.: 62 LENGTH: _____ (M)DATE: 4/26/89 TIME (HHMM): 1215 TIDE HT.: -1 to +1 (M)OILED ZONE: (Splash High Medium Low)SUBSTRATUM: Rocks (Boulder Cobble Gravel Sand) Mud

LIVE BIOTA

Fucus (algae): Patchy Y/N Contin. Y/N Dense (Y/N) Sparse Y/N None Y/NDense Fucus in lower ITZ, Sparse in upper ITZMytilus (Mussels): Patchy (Y/N) Contin. Y/N Dense (Y/N) Sparse Y/N None Y/NSome coaters with mussels but not yet deadBalanus (Barnacles): Patchy (Y/N) Contin. Y/N Dense (Y/N) Sparse Y/N None Y/NSame as musselsLittorinaPatchy Y/N Contin. Y/N Dense Y/N Sparse (Y/N) None Y/Nfew seen, those in oiled zones are stressedLimpets: Patchy Y/N Contin. Y/N Dense Y/N Sparse (Y/N) None Y/NSame as LittorinaOTHER OBSERVATIONS: Solaster found on shore, oiled,alive but not vigorousCLEANUP PRECAUTIONS: Try not to damage areas of healthy(golden) fucus or mussels (clean not coated)MAMMALS: Otters _____ Harbor Seals _____ Sea Lions _____ Whales _____
Other _____

BIRDS: _____

GENERAL OBSERVATIONS: Most areas of this segment aremoderate to heavily moussed from strand line to
lower ITZ. However, some areas are lighter.

(version of 4/17/89)

CULTURAL RESOURCE EVALUATION FOR OILED SHORELINE

te 4/26/89 Location Disk Island Site South
Location Prefix DT Segment # 62 Length 250 m
Survey Method: Air _____ (A - indicate on map)
Ground ✓ (G - indicate on map)
Known cultural resources (AHRS #) None Data Source None
Oil conditions/beach visibility fairly heavy
Width of beach zone surveyed 0-2 m Tree fringe surveyed 10m
Cultural resources observed in beach zone (AHRS code) None
Cultural resources observed in tree fringe (AHRS code) None
General observations justifying survey method and segment's site probability:
Shore Profile steeply sloped upland + beach
Fresh Water Sources one stream
Sea Exposure south - protected by Knight Island
Probability of undiscovered sites in beach zone (circle one) 1 (2) 3 4 5
Monitoring during cleanup needed yes (no) Collection yes (no)
Photos: Color Roll # _____ Frames _____
B/W Roll # _____ Frames _____
Observer(s) C. Wilson
Time survey started 1215 Time survey ended 1315
Cultural resource considerations/restraints:
If heretofore undiscovered cultural resources are identified during cleanup contact Epou archaologist C. Hobley immediately.

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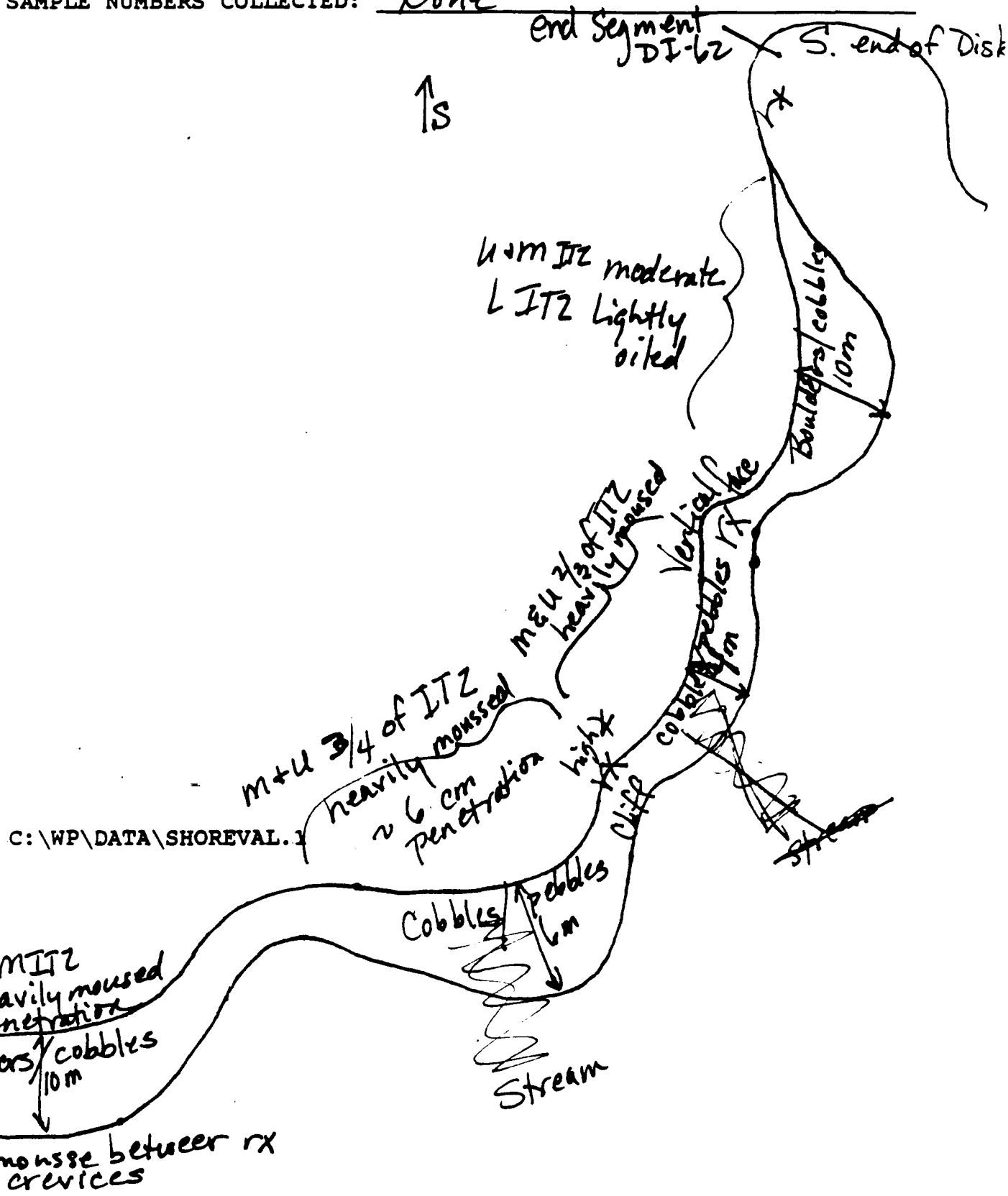
DOCUMENTATION:

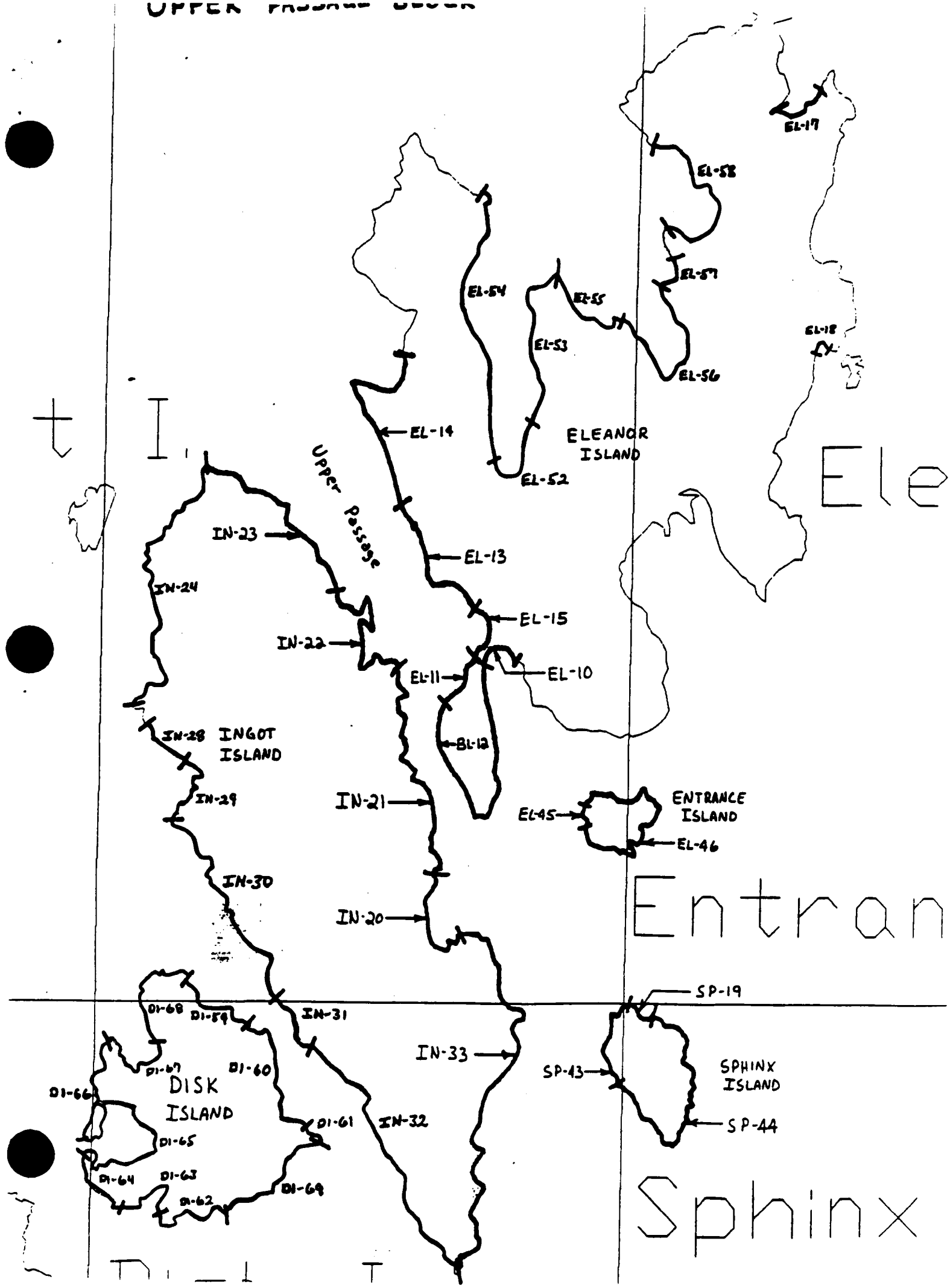
MAP/Aerial photo marking segment boundaries None

VTR: Y/N (N) Tape Number(s) _____

PHOTOGRAPHY: Y/N (N) Roll Number(s) _____

SAMPLE NUMBERS COLLECTED: None





(version 4/28/89)

SHORELINE CLEANUP PROGRAM

DATE: April 28, 1989

SHORELINE SEGMENT DI-63

LOCATION: (see enclosed map) Disk Island

ADEC NO. _____ SHORELINE ASSESSMENT DATE: 4-26-89

Recommended Cleanup Activity(ies):

Cold water, high pressure flushing on heavily oiled first small beach. Can clean at any tidal level.
Rest of section is more lightly oiled, clean with lower volume cold water.

Priorities Considerations:

Ecological Constraints (from site survey):

Edges of stream are clean. Avoid disturbing this area when cleaning others. First beach is heavily oiled and can be flushed with force.

Archeological Constraints (from site survey):

If heretofore undiscovered cultural materials are uncovered during cleanup, contact Exxon archaeologist C. Mobley and take actions prescribed in the Operational Guidelines for Shoreline Cleanup dated 4/21/89 as amended.

Paula J. Jones
State Historic Preservation Officer *

Date: 5/2/89

EXXON: _____

Date: _____

FOSC: _____

Date: _____

* Signature required to satisfy stipulations in Alaska DNR land use permits for tide and submerged lands .

[revised 17 Apr 89]

SHORELINE OIL EVALUATION

Date: 4 / 26 / 89

Observer: C. Dillon

Time: 13 h 45 m

Weather: Sun/Cloud/Rain/Snow/Fog

LOCATION

LOCATION Disk Island

SITE Southwest

LOCATION PREFIX DI

SEGMENT NUMBER DI-63

LATITUDE: 6 d m s

LONGITUDE: 147 d m s

LENGTH OF SHORELINE SEGMENT: 275 m

ACCESS: Foot/Vehicle/Boat/Barge/Helio/Float Plane

SHORELINE:

SHORELINE CHARACTER:

Beach/SPit/Cove shallow

Wave Exposure: High/Med/Low

Rock Y/N % 10 Vertical/High Angle/Low Angle

SEdiment Y/N % 90 Types: B / C / P / G / S / M / R

Strand Line Y/N Algae/Debris/Logs

OIL

LOCATION OF OIL: SU / SP H / M / L

CONTINUOUS: Y/N WIDTH OF BAND: 5-15 m % of Segment 100

PATCHY: 10/20/30/40/50/60/70/80/90% coverage % of Segment

EST. OIL THICKNESS: 25-5 cm EST. OIL PENETRATION: 5-15 cm

POOLED OIL: Y/N "FREE" OIL: Y/N WEATHERED: Y/N

STRAND LINE CLEAN/OILED N/A

SUMMARY OILING: Amount High/Med/Low
Coverage Extensive/Moderate/Light

COMMENTS: diagram on next page.

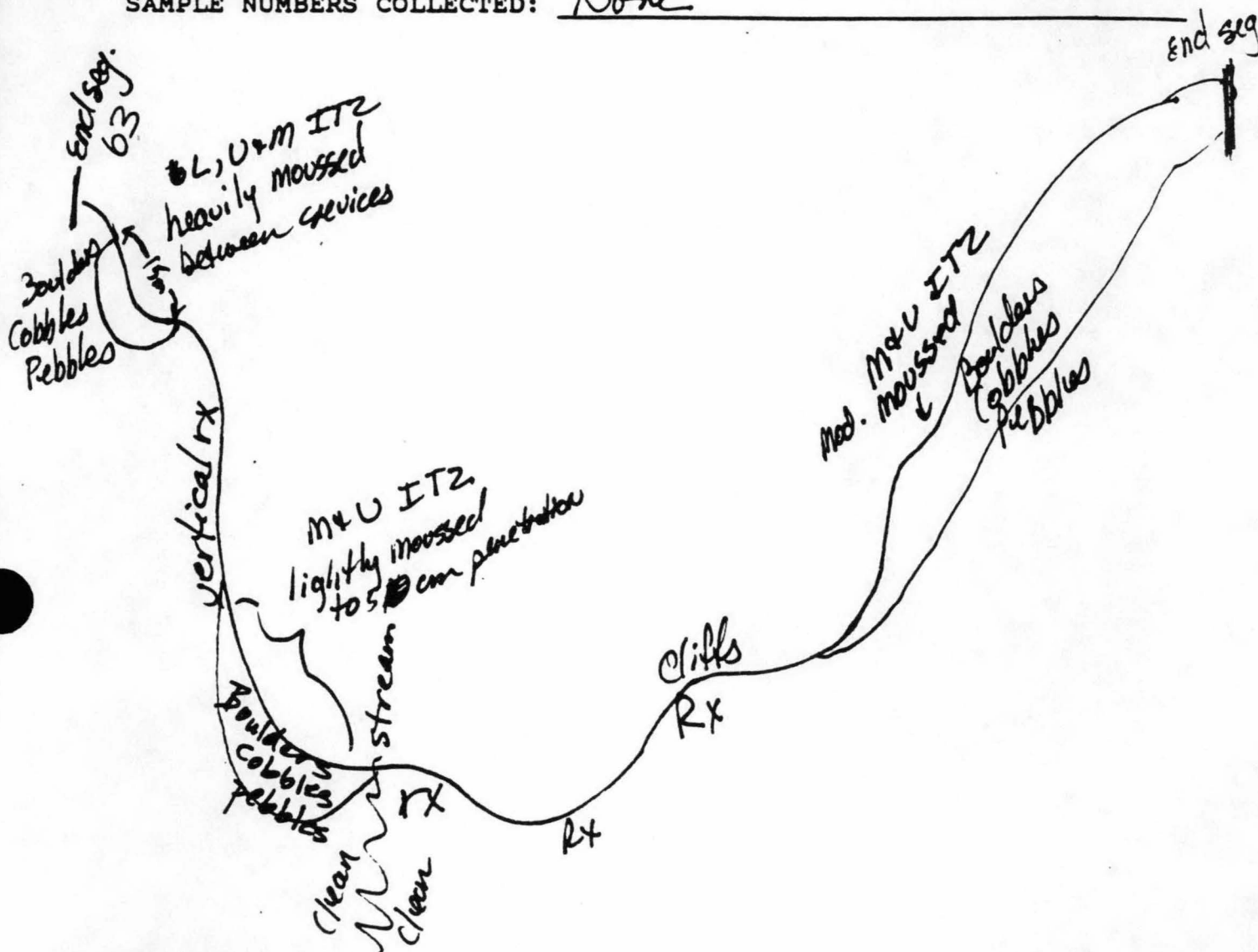
DOCUMENTATION:

MAP/Aerial photo marking segment boundaries None

VTR: Y/N Tape Number(s) _____

PHOTOGRAPHY: Y/N Roll Number(s) _____

SAMPLE NUMBERS COLLECTED: None



C:\WP\DATA\SHOREVAL.1

ECOLOGICAL EVALUATION

LOCATION: Disk ISE SITE: South West OBSERVER: SM Be
 LOCATION PREFIX: DI SEG. NO.: 63 LENGTH: 275 (M)
 DATE: 7/26/89 TIME (HHMM): 1340 TIDE HT.: +2 (M)
 OILED ZONE: Splash High Medium Low
 SUBSTRATUM: Rocks Boulder Cobble Gravel Sand Mud

LIVE BIOTA

Fucus (algae): Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N

Fucus dense at stream & healthy, apparently

Mytilus (Mussels): Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N

Mussels on exposed rocks are cooked but closed

Balanus (Barnacles): Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N

cooked in areas

Littorina

Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N

organisms are cooked but alive

Limpets: Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N

Same as Littorina

OTHER OBSERVATIONS: Fucus and mytilus at stream are alive

CLEANUP PRECAUTIONS: Avoid stream when cleaning, it is apparently flushing sufficiently. organisms on stream border are clean and apparently healthy.

MAMMALS: Otters _____ Harbor Seals _____ Sea Lions _____ Whales _____
 Other _____

BIRDS: _____

GENERAL OBSERVATIONS: This segment is ~~not~~ not as heavily oiled as DI 62 except for the first beach which is moderate to heavily oiled to the water line, but is very small ($\pm 15m$).

(version of 4/17/89)

CULTURAL RESOURCE EVALUATION FOR OILED SHORELINE

Date 4/26/89 Location DISK ISLAND Site Southwest

Location Prefix DI Segment # DI6³ Length 275 m

Survey Method: Air _____ (A - indicate on map)

Ground ✓ (G - indicate on map)

Boat ✓

Known cultural resources (AHRS #) None Data Source None

Oil conditions/beach visibility moderate oil

Width of beach zone surveyed 2-3 m Tree fringe surveyed 10

Cultural resources observed in beach zone (AHRS code) None

Cultural resources observed in tree fringe (AHRS code) None

General observations justifying survey method and segment's site probability

Shore Profile steep rocky

Fresh Water Sources one stream

Sea Exposure open to north

Probability of undiscovered sites in beach zone (circle one) 1 2 3 4 5

Monitoring during cleanup needed yes/no Collection yes/no

Photos: Color Roll # _____ Frames _____

B/W Roll # _____ Frames _____

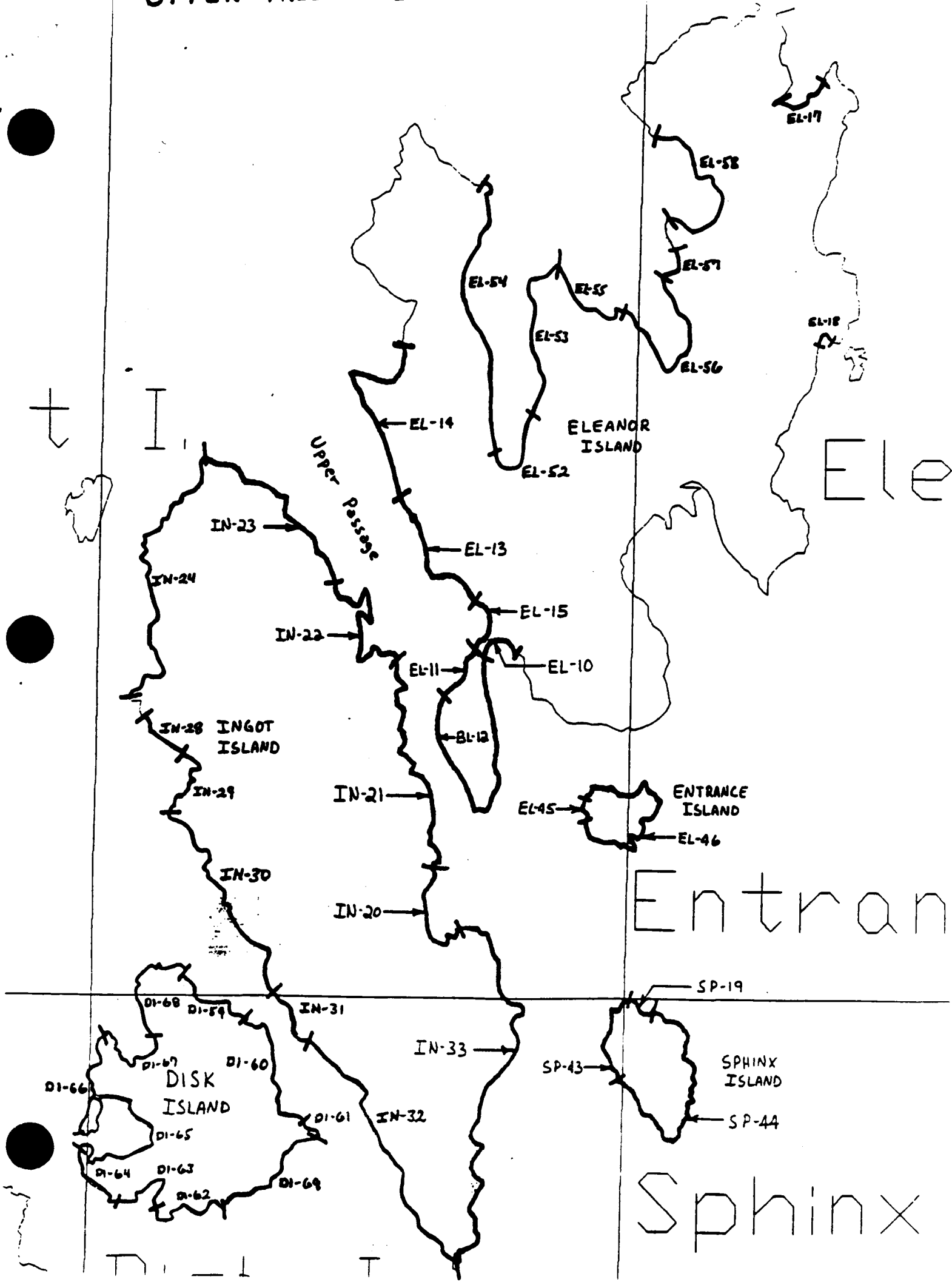
Observer(s) C. Wilson

Time survey started 1340 Time survey ended 1410

Cultural resource considerations/restraints:

If heretofore undiscovered, cultural resources are uncovered during cleanup contact Exxon archaeologist, C Mobley, immediately.

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(version 4/28/89)

SHORELINE CLEANUP PROGRAM

DATE: April 28, 1989

SHORELINE SEGMENT DI-64

LOCATION: (see enclosed map) Disk Island

ADEC NO. _____ SHORELINE ASSESSMENT DATE: 4-26-89

Recommended Cleanup Activity(ies):

Cold water high pressure wash on dead Fucus in upper ITZ . Use lower pressure in lightly oiled lower ITZ.
First beach is a small, oiled pocket, clean if crew is available from rest of segment cleanup.

Priorities Considerations:

Ecological Constraints (from site survey):

Be careful of any healthy looking Fucus (golden in color) in the lower ITZ.
Any oiled Fucus can be flushed with high pressure.

Archeological Constraints (from site survey):

If heretofore undiscovered cultural materials are uncovered during cleanup, contact Exxon archaeologist C. Mobley and take actions prescribed in the Operational Guidelines for Shoreline Cleanup dated 4/21/89 as amended.

Charles E. Adams
State Historic Preservation Officer *

Date: 5/2/89

EXXON: _____

Date: _____

FOSC: _____

Date: _____

* Signature required to satisfy stipulations in Alaska DNR land use permits for tide and submerged lands .

SHORELINE OIL EVALUATION

[revised 17 Apr 89]

Date: 4 / 26 / 89Observer: C. DillonTime: 14 h 15 mWeather: Sun/cloud/Rain/Snow/Fog

LOCATION

LOCATION Disk IslandSITE West SouthwestLOCATION PREFIX DISEGMENT NUMBER DI-64

LATITUDE: 6 ___ d ___ m ___ s

LONGITUDE: 147 d ___ m ___ s

LENGTH OF SHORELINE SEGMENT: ~~300~~ 250 mACCESS: Foot/Vehicle/BOat/Barge/Helio/Float Plane

SHORELINE:

SHORELINE CHARACTER:

BEach/SPit/Cove/___/___Wave Exposure: High/Med/LowRock Y/N % 25 VERTical/High Angle/Low AngleSEdiment Y/N % 75 Types: 10 35 25 15 B / C / P / G / S / M / RStrand Line Y/N Algae/Debris/Logs

OIL

LOCATION OF OIL: SU / SP / H / M / LCONTINUOUS: Y/N WIDTH OF BAND: 5-10 m % of Segment 100

PATCHY: 10/20/30/40/50/60/70/80/90% coverage % of Segment ___

EST. OIL THICKNESS: <1 cm EST. OIL PENETRATION: <2 cmPOOLED OIL: Y/N "FREE" OIL: Y/N WEATHERED: Y/NSTRAND LINE CLEAN/OILED N/A in crevices between rocksSUMMARY OILING: Amount High/Med/Low
Coverage Extensive/Moderate/LightCOMMENTS: Diagram on next page.

DOCUMENTATION:

MAP/Aerial photo marking segment boundaries None

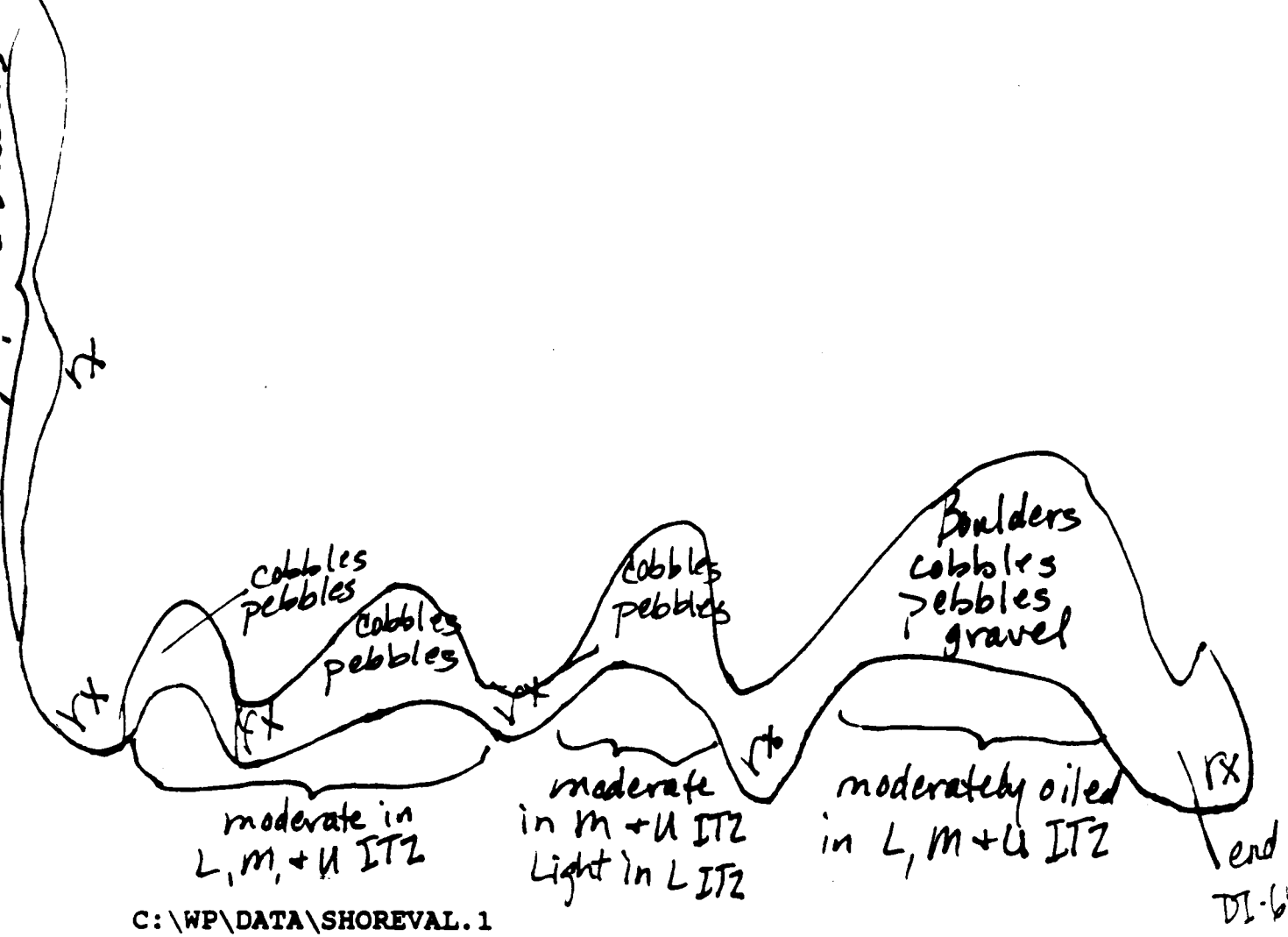
VTR: Y/N (N) Tape Number(s) _____

PHOTOGRAPHY: Y/N (N) Roll Number(s) _____

SAMPLE NUMBERS COLLECTED: None

entering
light

end DS-64



C:\WP\DATA\SHOREVAL.1

ECOLOGICAL EVALUATION

LOCATION: Disk Is SITE: West South West OBSERVER: SM BcLOCATION PREFIX: DI SEG. NO.: 64 LENGTH: 250 (M)DATE: 4/26/89 TIME (HHMM): 1420 TIDE HT.: + 2 1/2 (M)OILED ZONE: Splash High Medium LowSUBSTRATUM: Rocks Boulder Cobble Gravel Sand Mud

LIVE BIOTA

Fucus (algae): Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/NSparse in some areas - lower ITZ not oiled - upper has dead fucusMytilus (Mussels): Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/NSome oiled but still closedBalanus (Barnacles): Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/NSome areas have sparse barnacles - oiledLittorinaPatchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/Nfew seen - unoiled OK in lower ITZLimpets: Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/Nfew seen same as aboveOTHER OBSERVATIONS: Moderate mussel at tide line on
second beach. First beach is small - clean if crew is
availableCLEANUP PRECAUTIONS: OK to blast oiled Fucus with high
pressureMAMMALS: Otters other Harbor Seals _____ Sea Lions _____ Whales _____BIRDS: NGENERAL OBSERVATIONS: Oil mussel is lighter in LTZ

CULTURAL RESOURCE EVALUATION FOR OILED SHORELINE

Date 4/26/89 Location Pink Island Site West Southwest

Location Prefix DI Segment # DI 64 Length 250 ~~100~~ ^{0.0} m

Survey Method: Air _____ (A - indicate on map)

Ground _____ (G - indicate on map)
Boat _____

Known cultural resources (AHRS #) None Data Source None

Oil conditions/beach visibility moderate

Width of beach zone surveyed 1-3 m Tree fringe surveyed 10 m

Cultural resources observed in beach zone (AHRS code) None

Cultural resources observed in tree fringe (AHRS code) None

General observations justifying survey method and segment's site probability

Shore Profile step heavily cobbled beaches

Fresh Water Sources Two

Sea Exposure south/southwest protected by Kure Island

Probability of undiscovered sites in beach zone (circle one) 1 (2) 3 4 5

Monitoring during cleanup needed yes (no) Collection yes (no)

Photos: Color Roll # _____ Frames _____

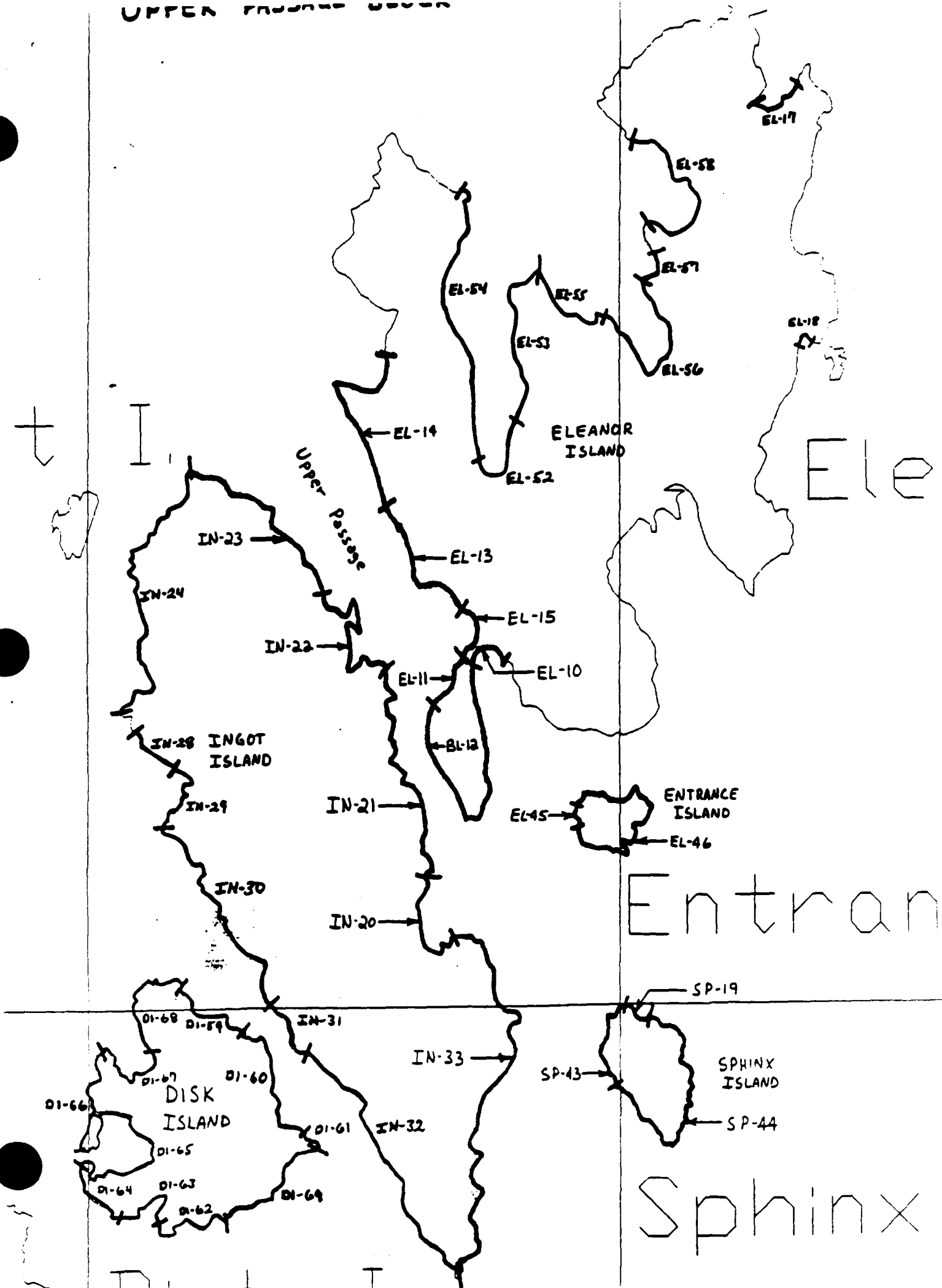
B/W Roll # _____ Frames _____

Observer(s) C. Wilson

Time survey started 1410 Time survey ended _____

Cultural resource considerations/restraints:

If heretofore undiscovered cultural resources are uncovered during cleanup contact Byron archeologist, C. Mobley, immediately.



(version 4/28/89)

SHORELINE CLEANUP PROGRAM

DATE: April 28, 1989

SHORELINE SEGMENT DI-65

LOCATION: (see enclosed map) Disk Island

ADEC NO. 9 SHORELINE ASSESSMENT DATE: 4-26-89

Recommended Cleanup Activity(ies):

High pressure hot water may be used on heavily oiled patches to west and near boomed entrance.

Low/high pressure cold washing elsewhere.

*AWADROMOUS
STREAM
ADVISORY* AUDIO STREAMS OR BANKS OF STREAMS UNLESS THE RESOURCE ADVISORY TEAM BIOLOGIST AUTHORIZES CLEANUP ACTIVITIES ON A SITE-SPECIFIC BASIS

Priorities Considerations:

Ecological Constraints (from site survey):

Do Not trample or disturb unoiled areas to the south and southeast.
Avoid stream to the northeast.

Archeological Constraints (from site survey):

If heretofore undiscovered cultural materials are uncovered during cleanup, contact Exxon archaeologist C. Mobley and take actions prescribed in the Operational Guidelines for Shoreline Cleanup dated 4/21/89 as amended.

Charles J. Holmes
State Historic Preservation Officer *

Date: 5/2/89

EXXON: _____

Date: _____

FOSC: _____

Date: _____

* Signature required to satisfy stipulations in Alaska DNR land use permits for tide and submerged lands .

SHORELINE OIL EVALUATION

[revised 17 Apr 89]

Date: 4 / 26 / 89Observer: C. Dillon

Time: _____ h _____ m

Weather: Sun/Cloud/Rain/Snow/Fog

LOCATION

LOCATION Disk IslandSITE "Biter" BightLOCATION PREFIX DISEGMENT NUMBER DI-65

LATITUDE: 6 _____ d _____ m _____ s

LONGITUDE: 147 d _____ m _____ s

LENGTH OF SHORELINE SEGMENT: 500 m

ACCESS: Foot/Vehicle/Boat/Barge/Helio/Float Plane

SHORELINE:

SHORELINE CHARACTER:

BEach/SPit/Cove/_____

Wave Exposure: High/Med/Low

Rock Y/N % 25 Vertical/High Angle/Low AngleSediment Y/N % 75 Types: 10-25-25-15 B / C / P / G / S / M / R

Strand Line Y/N Algae/Debris/Logs

OIL

LOCATION OF OIL: SU / SP / H / M / LCONTINUOUS: Y/N WIDTH OF BAND: 5-10 m % of Segment 100

PATCHY: 10/20/30/40/50/60/70/80/90% coverage % of Segment _____

EST. OIL THICKNESS: <1 cm EST. OIL PENETRATION: <2 cm

POOLED OIL: Y/N "FREE" OIL: Y/N WEATHERED: Y/N

STRAND LINE CLEAN/OILED N/A 4 in crevices between rocksSUMMARY OILING: Amount High/Med/Low
Coverage Extensive/Moderate/LightCOMMENTS: No diagram. Areas of oil were interspersed with clean sections all the way around the bight.

ECOLOGICAL EVALUATION

LOCATION: Disk Is SITE: Bright OBSERVER: SM BarLOCATION PREFIX: DI SEG. NO.: 65 LENGTH: 500 (M)DATE: 4/26/89 TIME (HHMM): 1455 TIDE HT.: + 3 (M)OILED ZONE: Splash High Medium LowSUBSTRATUM: Rocks Boulder Cobble Gravel Sand Mud

LIVE BIOTA

Fucus (algae): Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/NDead fucus in small oiled patches, other areas healthyMytilus (Mussels): Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/NMany open shells litter beaches in bright, not sure how long they've been dead. These shells are found amongst healthy looking fucusBalanus (Barnacles): Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/NMost looks okLittorinaPatchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/NThese are found as empty shells amongst healthy looking Fucus. Some are aliveLimpets: Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/NSame as LittorinaOTHER OBSERVATIONS: Several oiled areas are interspersed in clean areas.CLEANUP PRECAUTIONS: Try not to trample / stress clean areas when working in the BrightMAMMALS: Otters Harbor Seals Sea Lions Whales
Other BIRDS: GENERAL OBSERVATIONS: Oily beaches are located to the west and east shores of the bright. An area of rocks and cliffs on the northern shore has an oily/mousse ring ranging from 3-12" wide at the high tide line. Beaches to the south are clean / lightly oiled.

CULTURAL RESOURCE EVALUATION FOR OILED SHORELINE

Date 4/26/89 Location Dish Island Site Bigot
 Location Prefix DT Segment # DT65 Length 500m

Survey Method: Air _____ (A - indicate on map)

Ground ✓ (G - indicate on map)

Known cultural resources (AHRS #) BOAT Data Source None

Oil conditions/beach visibility variable

Width of beach zone surveyed 1-3 m Tree fringe surveyed 10

Cultural resources observed in beach zone (AHRS code) None

Cultural resources observed in tree fringe (AHRS code) None

General observations justifying survey method and segment's site probability

Shore Profile several beaches between concentrations of boulders
most beaches steep

Fresh Water Sources several

Sea Exposure no

Probability of undiscovered sites in beach zone (circle one) 1 (2) 3 4 5

Monitoring during cleanup needed yes (no) Collection yes (no)

Photos: Color Roll # _____ Frames _____

B/W Roll # _____ Frames _____

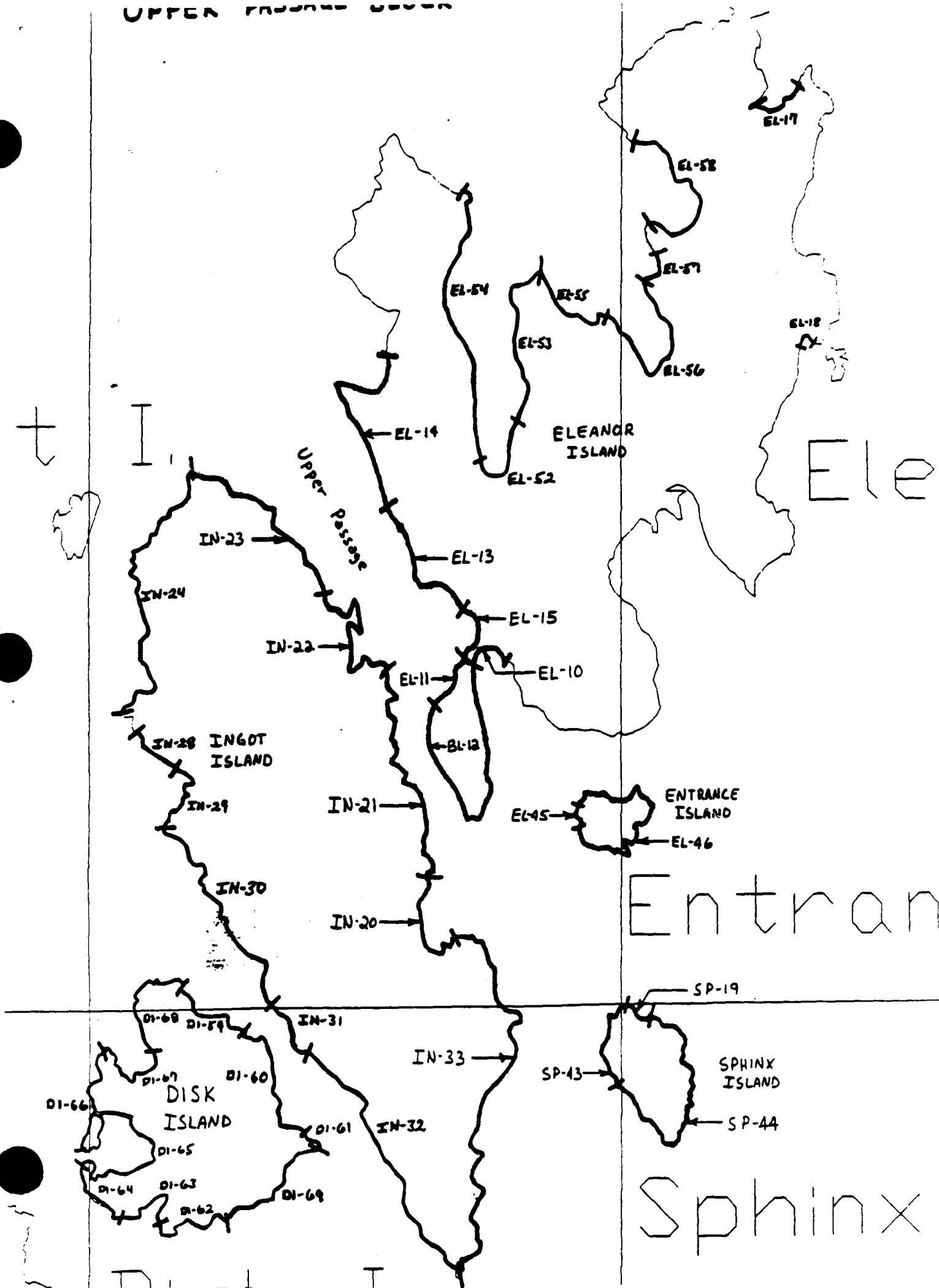
Observer(s) C. Wilson

Time survey started 1455 Time survey ended 1600

Cultural resource considerations/restraints:

If heritage uncovered cultural materials are
identified during cleanup notify Exxon
archaeologist, C. Mobley, immediately.

UPPER PASSAGE



(version 5/02/89)

SHORELINE CLEANUP PROGRAM

DATE May 2, 1989

SHORELINE SEGMENT DI-66

LOCATION: (see enclosed map) Disk Island

ADEC NO. _____ SHORELINE ASSESSMENT DATE: 4/27/89

Recommended Cleanup Activity(ies):

Hot water, high pressure flushing on boulder and cobble.

Hot water, low pressure, high volume flushing on pebbles/gravel.

Penetration is deep on small sediment.

Clean on outgoing tide since oil is throughout ITZ.

Priorities Considerations:

The oil in many areas of this section is black and unweathered. May take some type of scrubbing to remove it, unless the hot water is effective.

Ecological Constraints (from site survey):

Healthy organisms at water line and beneath water at low tide. Do Not damage this areas when cleaning.

Archeological Constraints (from site survey):

If heretofore undiscovered cultural materials are uncovered during cleanup, contact Exxon archaeologist C. Mobley and take actions prescribed in the Operational Guidelines for Shoreline Cleanup dated 4/21/89 as amended.

Charles J. Hines
State Historic Preservation Officer *

Date: 5/2/89

EXXON: _____

Date: _____

FOSC: _____

Date: _____

* Signature required to satisfy stipulations in Alaska DNR land use permits for tide and submerged lands .

[revised 17 Apr 89]

SHORELINE OIL EVALUATION

Date: 4 / 27 / 89

Observer: C. Dillon

Time: 10 h 45 m

Weather: Sun/Cloud / Rain / Snow / Fog

LOCATION

LOCATION Disk Island

SITE Northwest

LOCATION PREFIX DI

SEGMENT NUMBER DI-66

LATITUDE: 6 ___ d ___ m ___ s

LONGITUDE: 147 d ___ m ___ s

LENGTH OF SHORELINE SEGMENT: 1250 m

ACCESS: Foot / Vehicle / Boat/Barge / Helio / Float Plane

SHORELINE:

SHORELINE CHARACTER:

Beach / Spit / Cove / ___ / ___

Wave Exposure: High / Med / Low

Rock Y/N % 60 Vertical / High Angle / Low Angle

Sediment Y/N % 40 Types: B / C / P / G / S / M / R

Strand Line Y/N Algae / Debris / Logs

OIL

LOCATION OF OIL: SU / SP / H / M / L *varies fm beach to beach*

CONTINUOUS: Y/N WIDTH OF BAND: 3-15 m % of Segment 100

PATCHY: 10/20/30/40/50/60/70/80/90% coverage % of Segment ___

EST. OIL THICKNESS: <.25 cm *(~ 6 cm on Northern most beach)* EST. OIL PENETRATION: surface only on cm *rocks*

POOLED OIL: Y/N "FREE" OIL: Y/N WEATHERED: Y/N *up to 12 cm pebble/gr*

STRAND LINE CLEAN / OILED

SUMMARY OILING: Amount High / Med / Low
Coverage Extensive / Moderate / Light

COMMENTS: See diagram for details.

ECOLOGICAL EVALUATION

LOCATION: DISK Is. SITE: Northwest OBSERVER: SM BamLOCATION PREFIX: DI SEG. NO.: 106 LENGTH: 1250 (M)DATE: 4/27/89 TIME (HHMM): 1145 TIDE HT.: +2 (M)OILED ZONE: Splash High Medium Low Black oil, some mousse at High tide levelSUBSTRATUM: Rocks Boulder Cobble Gravel Sand Mud

LIVE BIOTA

Fucus (algae): Patchy (Y/N) Contin. Y/N Dense (Y/N) Sparse (Y/N) None Y/NFucus dense on rocks, sparse on beach cobbles. Segments at water line or under water (at low tide) appear healthy.Mytilus (Mussels): Patchy (Y/N) Contin. Y/N Dense (Y/N) Sparse (Y/N) None Y/NMytilus dense on rocks - those in higher ITZ are coated, most are closed - 20-25% are open - dead.Balanus (Barnacles): Patchy (Y/N) Contin. Y/N Dense (Y/N) Sparse (Y/N) None Y/N

Dense on rocks - those on rocks are coated - About 20% of those checked are dead.

LittorinaPatchy Y/N Contin. Y/N Dense Y/N Sparse (Y/N) None Y/N

Several on lightly oiled rocks in High ITZ - alive

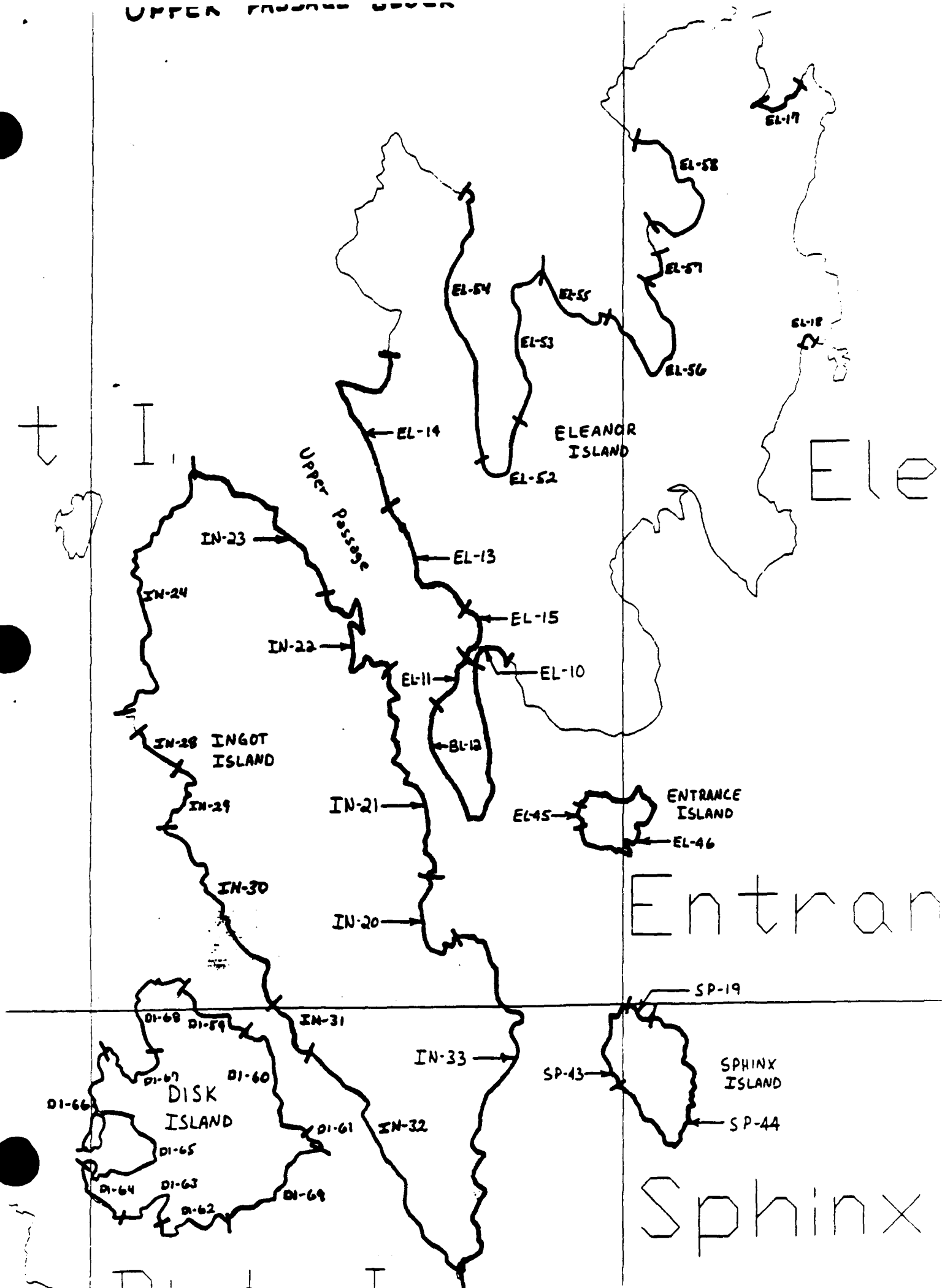
Limpets: Patchy Y/N Contin. Y/N Dense Y/N Sparse (Y/N) None Y/N

Several seen - coated at splash w/oil but alive

OTHER OBSERVATIONS: Most of this area is oiled throughout the ITZ.Because the oil is mostly unweathered with some mousse in high ITZ.CLEANUP PRECAUTIONS: Healthy organisms at low tide water line and beneath water. Do not damage this area when cleaningMAMMALS: Otters None Harbor Seals Sea Lions Whales
Other BIRDS: GENERAL OBSERVATIONS: These beaches are devoid of life where heavily oiled. The oil is thick and black and may need to be washed with high pressure, hot water, and some type of chemical ~~dissip~~ dispersants. This is acceptable from an ecological standpoint as long as areas near the waterline are not disturbed.

CULTURAL RESOURCE EVALUATION FOR OILED SHORELINE

Date 4/28/88 Location DISK Island Site Northeast
Location Prefix DI Segment # 166 Length 1250 m
Survey Method: Air _____ (A - indicate on map)
Ground _____ (G - indicate on map)
Known cultural resources (AHRS #) BORT None Data Source None
Oil conditions/beach visibility highly variable
Width of beach zone surveyed 2-10m Tree fringe surveyed 10m
Cultural resources observed in beach zone (AHRS code) None RCS
Cultural resources observed in tree fringe (AHRS code) None
General observations justifying survey method and segment's site probability
Shore Profile beaches mostly narrow, steeply sloped and rock
Fresh Water Sources none small stream on at least two beaches
Sea Exposure west protected by Hughes Island
Probability of undiscovered sites in beach zone (circle one) 1 (2) 3 4 5
Monitoring during cleanup needed yes (no) Collection yes (no)
Photos: Color Roll # _____ Frames Camera not working
B/W Roll # _____ Frames _____
Observer(s) C. Nelson
Time survey started 1145 Time survey ended 1200
Cultural resource considerations/restraints:
If heretofore undiscovered cultural resources are
recovered during cleanup contact Exxon archaeologist, C
Mobley, immediately.



(version 5/02/89)

SHORELINE CLEANUP PROGRAM

DATE May 2, 1989

SHORELINE SEGMENT DI-67

LOCATION: (see enclosed map) Disk Island

ADEC NO. _____ SHORELINE ASSESSMENT DATE: 4/27/89

Recommended Cleanup Activity(ies):

Hot water, low pressure, high volume on north side pebbly beach.
High pressure hot water wash on cobbles to south side of beach.

Priorities Considerations:

Northern side of bay is more heavily oiled with unweathered oil.
May need to try dispersant or other new technologies on this side.
Most organisms in the oiled zone are dead/dying.

*THE USE OF DISPERSANTS MUST BE SEPARATELY AUTHORIZED BY THE
FOSC*

Ecological Constraints (from site survey):

Do not wash oil into pool. This area supports some apparently healthy plant life.

Also some Fucus beds near the low water line and beneath the water appear healthy. Do Not Disturb. Do not clean stream mouths.

Archeological Constraints (from site survey):

If heretofore undiscovered cultural materials are uncovered during cleanup, contact Exxon archaeologist C. Mobley and take actions prescribed in the Operational Guidelines for Shoreline Cleanup dated 4/21/89 as amended.

Mark E. Holmes
State Historic Preservation Officer *

Date: 5/2/89

EXXON: _____

Date: _____

FOSC: _____

Date: _____

* Signature required to satisfy stipulations in Alaska DNR
land use permits for tide and submerged lands .

SHORELINE OIL EVALUATION

[revised 17 Apr 89]

Date: 4 / 27 / 89

Observer: C. Dillon

Time: 11¹⁵ h 00 m

Weather: Sun/Cloud/Rain/Snow/Fog

LOCATION

LOCATION Disk Island

SITE Northwest Bay

LOCATION PREFIX DI

SEGMENT NUMBER DI-67

LATITUDE: 6 ___ d ___ m ___ s

LONGITUDE: 147 d ___ m ___ s

LENGTH OF SHORELINE SEGMENT: 200 m

ACCESS: Foot/Vehicle/Boat/Barge/Helio/Float Plane

SHORELINE:

SHORELINE CHARACTER:

Beach/SPit/Cove/___/___

Wave Exposure: High/Med/Low

Rock (Y/N) % ___ VERTICAL/High Angle/Low Angle

SEdiment (Y/N) % ___ Types: B / C / P / G / S / M / R

Strand Line (Y/N) Algae/Debris/Logs on N. side of segment

OIL

LOCATION OF OIL: SU / SP / H / M / L

CONTINUOUS: (Y/N) WIDTH OF BAND: 20-50 m % of Segment 100

PATCHY: 10/20/30/40/50/60/70/80/90% coverage % of Segment ___

EST. OIL THICKNESS: 4.5 cm EST. OIL PENETRATION: 5-10 cm on N. side
Surface only on S.

POOLED OIL: Y/N "FREE" OIL: Y/N WEATHERED: Y/N

STRAND LINE CLEAN/OILED

SUMMARY OILING: Amount High/Med/Low Variable
Coverage Extensive/Moderate/Light

COMMENTS: Sheen on pond and stream on North end of segment
See diagram for segment details

ECOLOGICAL EVALUATION

LOCATION: Disk Is. SITE: NW Bay OBSERVER: SM Ben
 LOCATION PREFIX: PI SEG. NO.: 67 LENGTH: 200m (M)
 DATE: 4/27/89 TIME (HHMM): 1100 TIDE HT.: 0 - +1 (M)
 OILED ZONE: Splash High Medium Low Black oil throughout intertidal
 SUBSTRATUM: Rocks Boulder Cobble Gravel Sand Mud Moose high FTZ

LIVE BIOTA

Fucus (algae): Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N

Most Fucus is heavily oiled/dead. Some in the backwater pool is alive, also some located at the water line (low tide) appears to be ok.

Mytilus (Mussels): Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N

Dense on rocks, patchy in the backwater. Most patches are coated. Mussels are closed (alive?) About 20% are open (dead).

Balanus (Barnacles): Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N

Dense on rocks coated but may be alive

Littorina

Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N

Several (less than 10) seen in North end oiled but alive

Limpets: Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N

Two seen with Littorina alive

OTHER OBSERVATIONS: Olve in lower FTZ oiled, Red algae mixed with Fucus zone, most oiled. A few (less than 20) Macoma found in lower ITZ, recently dead. Seagrass in pool behind beach appears healthy

CLEANUP PRECAUTIONS: Pool has sheen, if skimmed try not to damage organisms. Do not wash into the pool as algae and grass appear to be healthy alive.

MAMMALS: Otters _____ Harbor Seals _____ Sea Lions _____ Whales _____
 Other None

BIRDS: _____

GENERAL OBSERVATIONS: The beach is long and deep - a large area is oiled and the back water may cause problems when cleaning

version of 4/25/89)

CULTURAL RESOURCE EVALUATION FOR OILED SHORELINE

Date 4/27/89 Location Disk Island Site Northwest Bay
Location Prefix DI Segment # DI 67 Length 200m

Survey Method:

Air _____ (A - indicate on map) Boat _____ (A - indicate on map)

Ground ☒ (G - indicate on map)

Known cultural resources (AHRS #) None Data Source None

Oil conditions/beach visibility variable with heavy on north

Width of beach zone surveyed 1-3 m Tree fringe surveyed 10

Cultural resources observed in beach zone (AHRS code) None

Cultural resources observed in tree fringe (AHRS code) None

General observations justifying survey method and segment's site probability:

Shore Profile flat beach with slope from water; approximately 500 sq meters in size
Fresh Water Sources Two streams

Sea Exposure fully open to northwest

Access/Safety access at low tide excellent; probably OK at high tide

Probability of undiscovered sites in beach zone (circle one) 1 (2) 3 4 5

Monitoring during cleanup needed yes (no) Collection yes (no)

Photos: Color Roll # _____ Frames camera not working

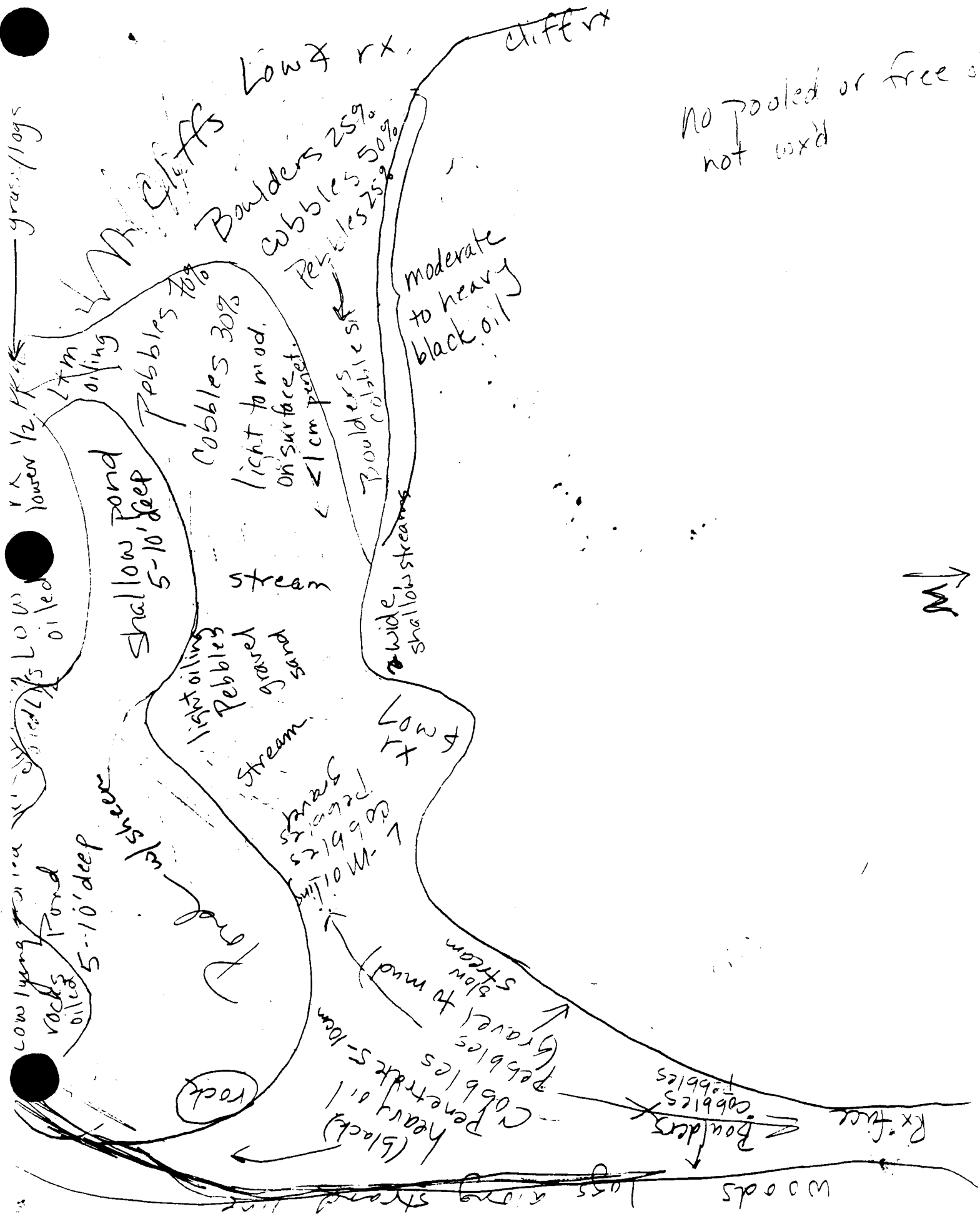
B/W Roll # _____ Frames _____

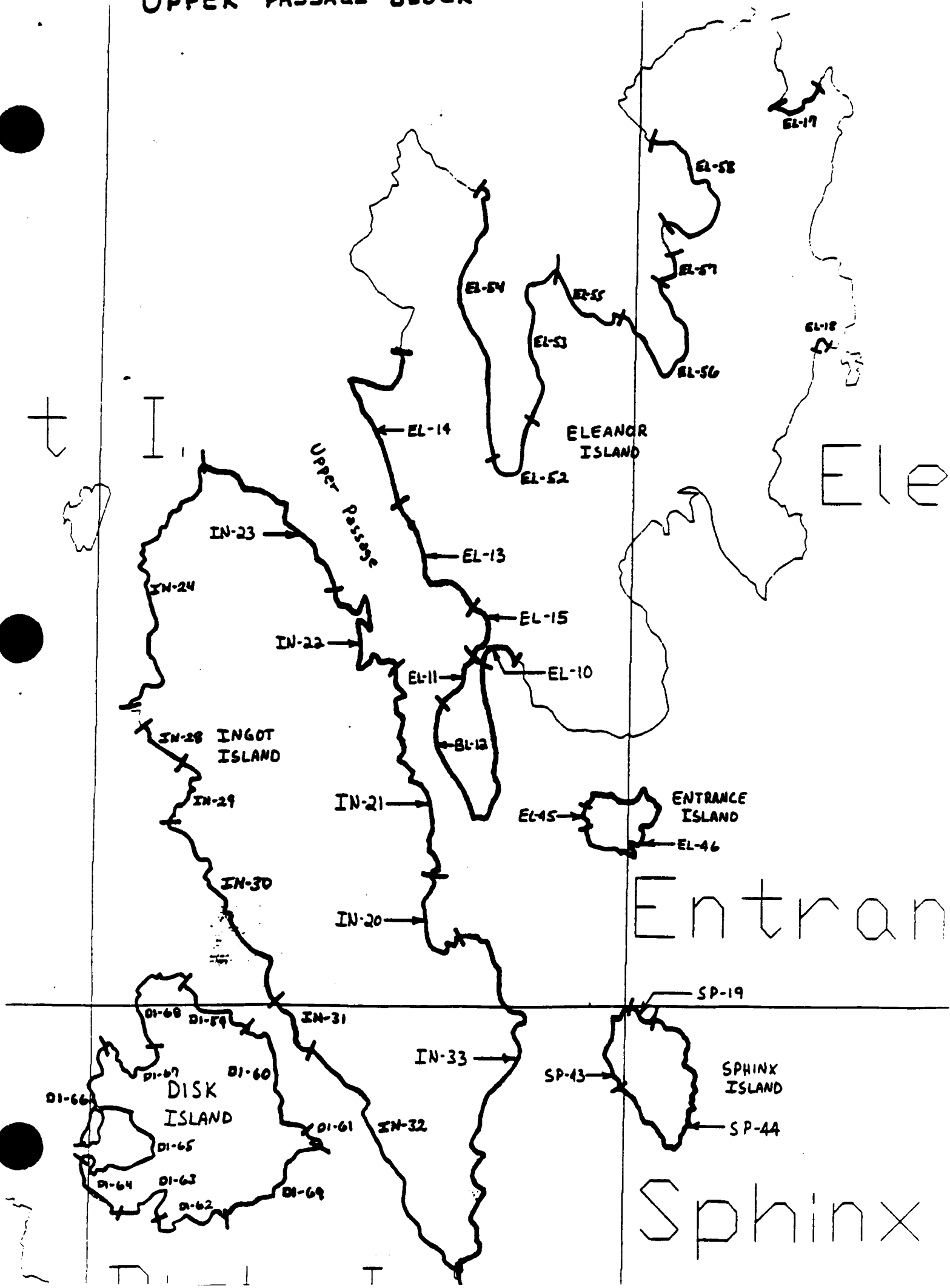
Observer(s) C. Wilson

Time survey started 1100 Time survey ended 1130

Cultural resource considerations/restraints:

Get it. If heretofore undiscovered cultural remains are uncovered during cleanup call Exxon archaeologist, C. Vollebregt, immediately





(version 5/02/89)

SHORELINE CLEANUP PROGRAM

DATE May 2, 1989

SHORELINE SEGMENT DI-68

LOCATION: (see enclosed map) Disk Island

ADEC NO. _____ SHORELINE ASSESSMENT DATE: 4/27/89

Recommended Cleanup Activity(ies):

Hot water, high pressure on larger rocks of middle to upper ITZ. Most beaches have smaller sediments so use hot water, low pressure, high volume flushing on oiled middle ITZ and deeply penetrated gravels.

ADDITIONAL
STREAM
ADVISORY

Avoid streams or bands of stream unless the Resource Advisory Team Biologist authorizes cleanup activities on a site specific basis

Priorities Considerations:

Lower ITZ is lightly oiled to clean. Flushing operations to avoid oiling this zone. Clean upper & middle ITZ at high to medium tide, (ebbing tide).

Avoid streams and completely clean beaches.

Ecological Constraints (from site survey):

Do not disturb clean areas surrounding streams at areas of health Fucus in lower ITZ.

Archeological Constraints (from site survey):

If heretofore undiscovered cultural materials are uncovered during cleanup, contact Exxon archaeologist C. Mobley and take actions prescribed in the Operational Guidelines for Shoreline Cleanup dated 4/21/89 as amended.

Charles E. Hines
State Historic Preservation Officer *

Date: 5/2/89

EXXON: _____

Date: _____

FOSC: _____

Date: _____

* Signature required to satisfy stipulations in Alaska DNR land use permits for tide and submerged lands .

[revised 17 Apr 89]

SHORELINE OIL EVALUATION

Date: 4 / 27 / 89

Observer: C. Dillon

Time: 13 h 10 m
10/14 30

Weather: Sun/Cloudy/Rain/Snow/Fog

LOCATION

LOCATION Disk Island

SITE North-Northwest

LOCATION PREFIX DI

SEGMENT NUMBER DI-68

LATITUDE: 6 ___ d ___ m ___ s

LONGITUDE: 147 d ___ m ___ s

LENGTH OF SHORELINE SEGMENT: 300 m

ACCESS: Foot/Vehicle/BOat/Barge/HELio/Float Plane

SHORELINE:

SHORELINE CHARACTER:

BEach/SPit/Cove/___/___

Wave Exposure: High/Med/Low

Rock Y/N % 20 Vertical/High Angle/Low Angle

SEDiment Y/N % 80 Types: B / C / P / G / S / M / R

Strand Line Y/N Algae/Debris/Logs

OIL

LOCATION OF OIL: SU / SP / H / M / L — some light oiling at beginning segment (Southernmost extent)

CONTINUOUS: Y/N WIDTH OF BAND: 3-10 m % of Segment 80

PATCHY: 10/20/30/40/50/60/70/80/90% coverage % of Segment 10

EST. OIL THICKNESS: <25+1.0 cm EST. OIL PENETRATION: Surface only ex cm

POOLED OIL: Y/N "FREE" OIL: Y/N WEATHERED: Y/N

STRAND LINE CLEAN/OILED

SUMMARY OILING: Amount High/Med/Low
Coverage Extensive/Moderate/Light

COMMENTS: Several beaches in segment — each varies in Amount + coverage of oiling. See diagram for details.

ECOLOGICAL EVALUATION

LOCATION: Disk Is. SITE: North-NW OBSERVER: SmBLOCATION PREFIX: DI SEG. NO.: 68 LENGTH: 300 (M)DATE: 4/27/89 TIME (HHMM): 1310 TIDE HT.: +1-1/2 (M)OILED ZONE: Splash High Medium LowSUBSTRATUM: Rocks Boulder Cobble Gravel Sand Mud

LIVE BIOTA

Fucus (algae): Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/NDense on rocks, sparse elsewhere. Fucus in lower ITZ looks healthy. Fucus higher on rocks is oiled.Mytilus (Mussels): Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/NMussels dense in some areas, patchy in others. Mytilus in lower ITZ not countedBalanus (Barnacles): Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/NBalanus dense in some areas - spat on some cobbles
Not oiled in lower ITZLittorinaPatchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/NSeveral seen in mussel zone alive but oiled slightlyLimpets: Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/NSame as LittorinaOTHER OBSERVATIONS: Streams in the segment are generally
cleaning - One has a very wide clean areaCLEANUP PRECAUTIONS: Do NOT clean stream areas.Do NOT disturb healthy orgs. at low tide levelMAMMALS: Otters Harbor Seals Sea Lions Whales
Other BIRDS: GENERAL OBSERVATIONS: Also saw Pagrus alivered algae - Black oil is generally confined to the
upper ITZ.

version of 4/25/89)

CULTURAL RESOURCE EVALUATION FOR OILED SHORELINE

Date 4/27/89 Location Dink Island Site North northwest

Location Prefix DI Segment # DI 68 Length 300m

Survey Method:

Air _____ (A - indicate on map) Boat ☒ (A - indicate on map)

Ground _____ (G - indicate on map)

Known cultural resources (AHRS #) None Data Source None

Oil conditions/beach visibility variable

Width of beach zone surveyed 1-3 m Tree fringe surveyed 10

Cultural resources observed in beach zone (AHRS code) None CMT

Cultural resources observed in tree fringe (AHRS code) None

General observations justifying survey method and segment's site probability:

Shore Profile medium sized sea beaches in a row of

Fresh Water Sources two streams

Sea Exposure northwest exposure protected by Ingot Island

Access/Safety access to all beaches was good

Probability of undiscovered sites in beach zone (circle one) 1 2 3 4 5

Monitoring during cleanup needed yes/no Collection yes/no

Photos: Color Roll # _____ Frames camera not working

B/W Roll # _____ Frames _____

Observer(s) C. Wilson

Time survey started 1310 Time survey ended 1430

Cultural resource considerations/restraints:

If heretofore undiscovered cultural resources are recovered during operation cleanup contact Byron archaeologist, C. Hobbie, immediately

Segment D1-68



Mid to Upper ITZ
has a band of oil
~.5cm thick & 1cm
penetration.
Extreme Upper ITZ
is clean.

4 St.
is Cl.

algal
strand
is clean

algal strand is clean

cobbles
pebbles
gravel

Boulders + cobbles

L ITZ clean
m+u ITZ is
mod. oiled →
mod. oil → 7cm
penetration

low &
oiled rx

clean

cobbles
gravel

low lying rx

patches of
light oil on
surface up
to 8 cm
penetration

gravel

clean

high &
oiled rx

strand algae/logs - clean

Lower ITZ - light to clean
Mid. ITZ - light - mod.
Upper ITZ - mod. - high
black oil → 6cm
penetration

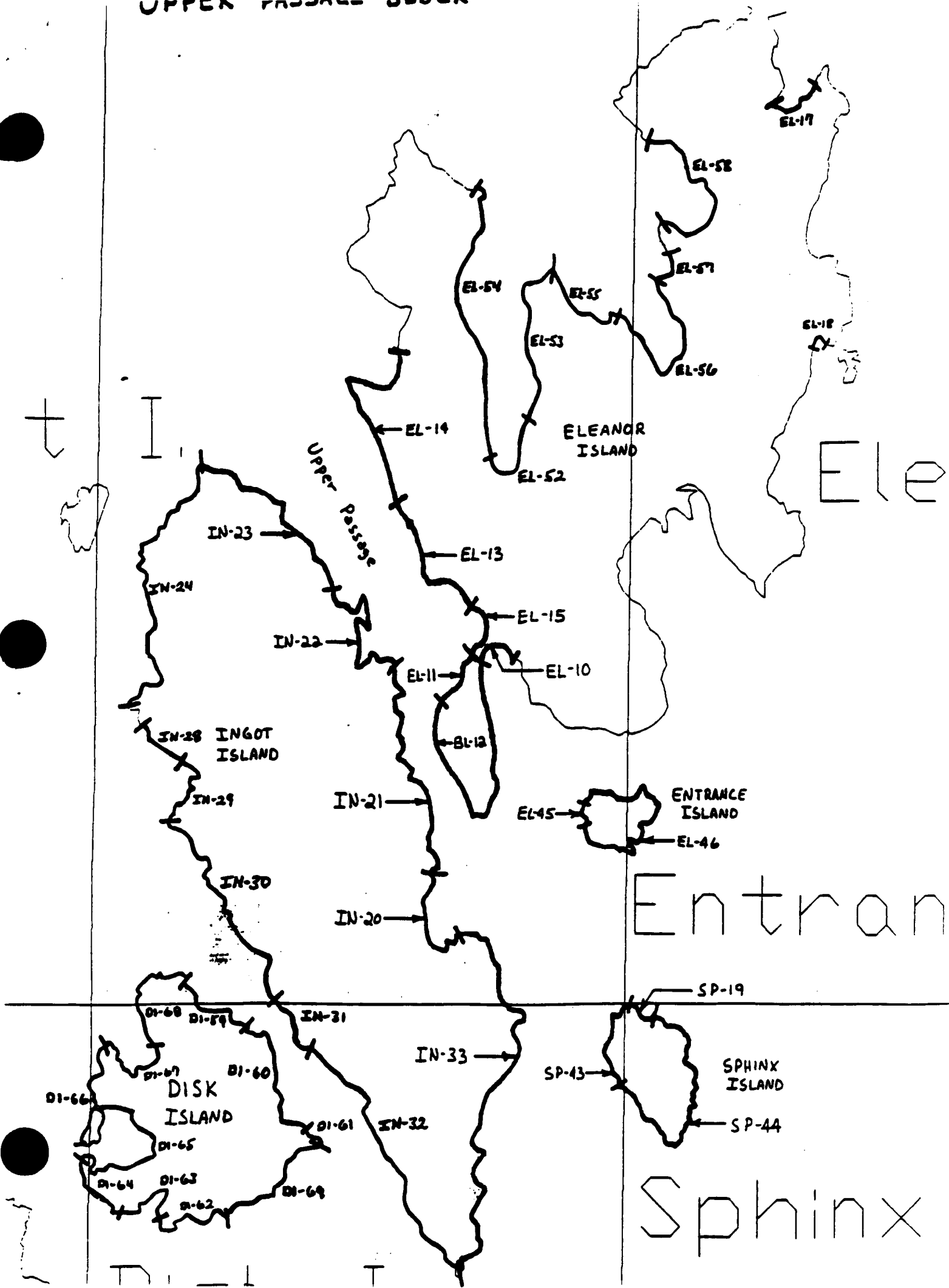
cobbles
pebbles
gravel
10m

high &
rx stream

strand algae/logs - clean

Upper ITZ must be
m+L ITZ light oil
No free or pooled oil
surface only
2.25 cm thick

Large, high vertical overhang
Cliff face
Boulders
Gravel
Pebbles
Cobbles
Low rx



(version 5/02/89)

SHORELINE CLEANUP PROGRAM

DATE May 2, 1989

SHORELINE SEGMENT DI-69

LOCATION: (see enclosed map) Disk Island

ADEC NO. _____ SHORELINE ASSESSMENT DATE: 4/27/89

Recommended Cleanup Activity(ies):

Not recommended for clean-up. Not accessible to clean-up equipment.

*EXXON AND COAST GUARD SITE SUPERVISOR TO CONDUCT
SEPARATE SITE SURVEY AND DETERMINE FEASIBILITY OF
CLEANUP.*

Priorities Considerations:

None

Ecological Constraints (from site survey):

No ecological constraints since site is not recommended for clean-up and an ecological evaluation form is not submitted. If recommendation changes ecological constraints must be considered.

Archeological Constraints (from site survey):

No archaeological constraints since site is not recommended for clean-up. No archaeological form was submitted. If recommendation changes constraints should be reconsidered.

Charles E. Holmes
State Historic Preservation Officer *

Date: 5/2/89

EXXON: _____

Date: _____

FOSC: _____

Date: _____

* Signature required to satisfy stipulations in Alaska DNR
land use permits for tide and submerged lands .

[revised 17 Apr 89]

SHORELINE OIL EVALUATION

Date: 4 / 27 / 89

Observer: Dillon/Wilson/Ban

Time: 14 h 45 m

Weather: Sun/Cloud/Rain/Snow/Fog

LOCATION

LOCATION Disk Island

SITE Southwest Rock Face

LOCATION PREFIX DI

SEGMENT NUMBER DI-69

LATITUDE: 6 d m s

LONGITUDE: 147 d m s

LENGTH OF SHORELINE SEGMENT: 800 m

ACCESS: Foot/Vehicle/Boat/Barge/HELIO/Float Plane

SHORELINE:

SHORELINE CHARACTER:

BEach/SPit/Cove/ / / VERTICAL FACE ROCK WALL

Wave Exposure: High/Med/Low

Rock (Y/N) % 100 Vertical/High Angle/Low Angle

SEdiment (Y/N) % Types: B / C / P / G / S / M / R

Strand Line (Y/N) Algae/Debris/Logs

OIL

LOCATION OF OIL: SU / SP / H / M / L Black high tide band only

CONTINUOUS: (Y/N) WIDTH OF BAND: 1 m % of Segment 100

PATCHY: 10/20/30/40/50/60/70/80/90% coverage % of Segment

EST. OIL THICKNESS: <.2 cm EST. OIL PENETRATION: 0 cm

POOLED OIL: (Y/N) "FREE" OIL: (Y/N) WEATHERED: (Y/N)

STRAND LINE CLEAN/OILED N/A

SUMMARY OILING: Amount High/Med/Low
Coverage Extensive/Moderate/Light

COMMENTS: Not feasible/accessible for clean-up

UPPER PASSAGE DOG

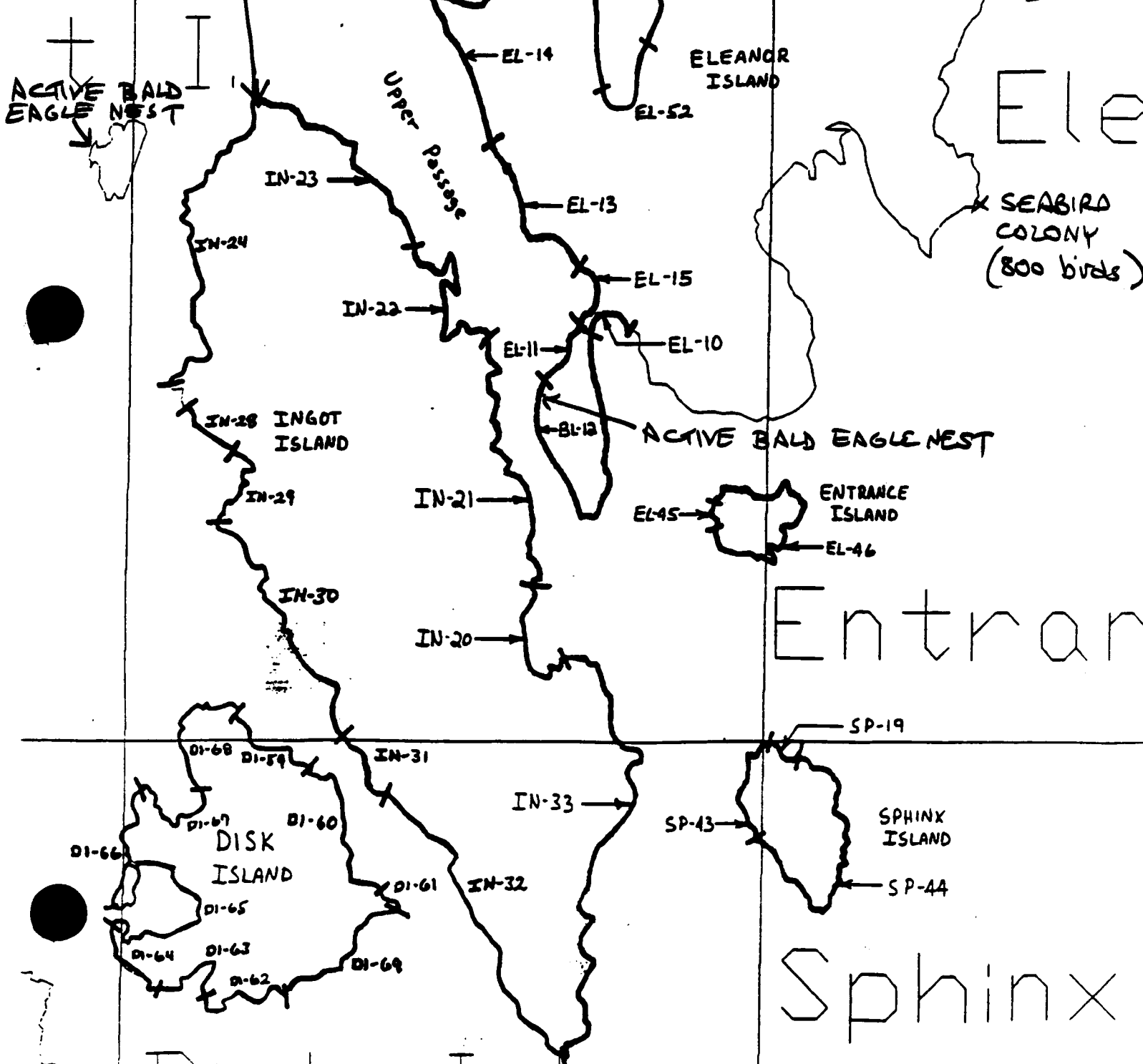
5/28/89

ACTIVE BALD EAGLE NEST

ACTIVE BALD EAGLE NEST

2 ACTIVE BALD EAGLE NESTS

ACTIVE BALD EAGLE NEST



**XC: ADEC
EXXON
FEOC**

SEG IN-28

TREATMENT MANUAL, 6/3/89

INSPECTION # _____

DATE 6/10/89

SEGMENT INSPECTION RECORD

Shoreline Treatment Process(es) Completed for this Segment

☒	Hot water wash	☒	Mechanical _____
☒	Warm water wash	☐	Non-mechanical _____
☒	Water deluge	☐	Other _____

Exxon

Treatment as indicated above has been completed. Request demobilization from this segment.

Comments Segment IN-28 is environmentally clean.Signature Steve E. Ramsower Date: 6/10/89 Time: 4:30 p.m.Printed Name Steve E. Ramsower

Existing Shoreline Condition As Visually Evaluated by ADEC and USCG

Surface Oil

☐	Heavily oiled
☐	Medium oiled
☒	Lightly oiled
☐	Very lightly oiled
☐	No oil

☐ No surface oil and no subsurface oil

Subsurface Oil

☐	Heavily oiled
☐	Medium oiled
☒	Lightly oiled
☐	Very lightly oiled
☐	No oil

Reassessment

☐	Yes - necessary	☒	No - not necessary unless re-oiled
--------------------------	-----------------	-------------------------------------	------------------------------------

ADEC rep

Comments _____

Signature _____ Date: / / Time: _____

Printed Name _____

FOSC rep

Demobilization approved/disapproved NSWComments ADEC REP STAN JUSTICE PRESENT DURING EVALUATION.CONCURRED W/ BOXES CHECKED - NOTING THAT OIL IS PRESENT IN LIGHT QUANTITIESSignature Thomas D. Harrison Date: 6/10/89 Time: 1636Printed Name THOMAS D. HARRISON LT USCG

COPY: EXXON ADEC FOSC ISCC

FOSC 6/4/89

SEG IN-29

TREATMENT MANUAL 6/3/89

INSPECTION # _____

DATE 6/18/89

SEGMENT INSPECTION RECORD

Shoreline Treatment Process(es) Completed for this Segment



Hot water wash



Mechanical



Warm water wash

Non-mechanical wiping

Water deluge



Other _____

Exxon

Treatment as indicated above has been completed. Request demobilization from this segment.

Comments Segment IN-29 is environmentally
clean except for 250' sections to be treated with sn
 Signature Steve E. Ramsauer Date: 6/18/89 Time: 5:00 pm
 Printed Name Steve E. Ramsauer

Existing Shoreline Condition As Visually Evaluated by ADEC and USCG

Surface Oil



Heavily oiled



Medium oiled



Lightly oiled



Very lightly oiled



No oil



No surface oil and no subsurface oil

Subsurface Oil



Heavily oiled



Medium oiled



Lightly oiled - majority of segment



Very lightly oiled



No oil

Reassessment



Yes - necessary



No - not necessary unless re-oiled

ADEC rep

Not

Comments ADEC REP DINNY TIMMONS UNABLE TO MAKE VISIT,
HOWEVER, ATTENDED PRE INSPECTION ON 6/17/89.
 Signature _____ Date: / / Time: _____
 Printed Name _____

FOSC rep

Demobilization approved/disapproved

Comments HAD BEEN REQUIRED IN 3 FLEETED ISOLATED SPOTS. IN ADDITION
SUBS. BEEN REQUIRED @ 1 COAST GUARD AREA TO BE MAINTAINED
 Signature Thomas D. Harrison Date: 6/19/89 Time: 1700
 Printed Name THOMAS D. HARRISON LT USCG

CHECK
 EVERY
 2 DAY
 RE OIL

COPY: EXXON ADEC FOSC ISCC

FOSC 6/4/89

INSPECTION # _____

DATE 6/10/89

SEGMENT INSPECTION RECORD

Shoreline Treatment Process(es) Completed for this Segment

☒	Hot water wash	☒	Mechanical _____
☒	Warm water wash	☐	Non-mechanical _____
☒	Water deluge	☐	Other _____

Exxon

Treatment as indicated above has been completed. Request demobilization from this segment.

Comments Segment IN-30 is environmentally clean.

Signature Steve E. Ramsower Date: 6/10/89 Time: 4:30 pm

Printed Name Steve E. Ramsower

Existing Shoreline Condition As Visually Evaluated by ADEC and USCG

Surface Oil

☐ Heavily oiled
☐ Medium oiled
☒ Lightly oiled
☐ Very lightly oiled
☐ No oil

☐ No surface oil and no subsurface oil

Subsurface Oil

☐ Heavily oiled
☒ Medium oiled
☐ Lightly oiled
☐ Very lightly oiled
☐ No oil

Reassessment

☐ Yes - necessary

YAW

☒ No - not necessary unless re-oiled

ADEC rep

Comments _____

Signature _____

Date: / / Time: _____

Printed Name _____

FOSC rep

Demobilization approved/~~disapproved~~

Comments ADEC REP STAN JUSTICE PRESENT DURING EVALUATION.

CONCURS w/ EXISTING CONDITIONS. HOWEVER FEELS REASSESSMENT WARRANTED.

Signature THOMAS D. JARLISON, LT USCG Date: 6/10/89 Time: 1645

Printed Name Thomas D. Jarlison

SEG IAW INSPECTION # 1
DATE 8-2-89SEGMENT
INSPECTION RECORD

Shoreline Treatment Process(es) Completed for this Segment

☒ Hot water wash	☒ Mechanical _____
☒ Warm water wash	☒ Non-mechanical _____
☒ Water deluge	☐ Other _____

Exxon

Treatment as indicated above has been completed. Request demobilization from this segment.

Comments Treatment of segment IAW is complete for demobilization to next segment

Signature Melvin D. Jones Date: 8/2/89 Time: 1200

Printed Name MELVIN D. JONES

Existing Shoreline Condition As Visually Determined by USCG

Surface Oil	
Percent	Degree of Oiling
<u>0</u>	Heavy
<u>35</u>	Medium
<u>55</u>	Light
<u>10</u>	Very Light
<u>0</u>	None
100 %	

Subsurface Oil

☒ Yes ☐ No

Comments 10% of segment light
subsurface 2% med
subsurface

Reassessment

☒ Yes - necessary ☐ No - not necessary unless re-oiled

ADEC rep Comments No heavy oiling observed. Mostly light some medium oiling. Recommended demobilization

Signature Kate Sifter Date: 8/2/89 Time: 1433

Printed Name Kate Sifter

FOSC rep

Demobilization approved ~~disapproved~~

Comments NO GROSS Contamination

7/22/89
595

TREATMENT MANUAL, 6/15/89

SEG IN-32 INSPECTION # 1

SEGMENT

DATE 7/21/89

INSPECTION RECORD

Shoreline Treatment Process(es) Completed for this Segment

☒ Hot water wash	☒ Mechanical _____
☒ Warm water wash	☒ Non-mechanical _____
☒ Water deluge	☐ Other _____

Exxon

Treatment as indicated above has been completed. Request demobilization from this segment.

Comments Treatment of segment IN-32 is complete and ready for demobilization to next segment.

Signature Steve E. Ransau Date: 7/21/89 Time: 2035

Printed Name Steve E. Ransau TF-2 Commander

Existing Shoreline Condition As Visually Determined by USCG

Surface Oil	
Percent	Degree of Oiling
<u>0</u>	Heavy
<u>7</u>	Medium
<u>9</u>	Light
<u>5</u>	Very Light
<u>79</u>	None

100 %

Subsurface Oil

☒ Yes ☐ No

Comments Light in shelter areas

Reassessment

☒ Yes - necessary ☐ No - not necessary unless re-oiled

ADEC rep Comments NONE AVAILABLE

Signature _____

Date: / / Time: _____

Printed Name _____

FOSC rep

Demobilization approved/disapproved

Comments NO GROSS CONTAMINATION

Signature _____

Date: 7/21/89 Time: 2240

SEG OI-59 INSPECTION # 1DATE 7/19/89SEGMENT
INSPECTION RECORD

Shoreline Treatment Process(es) Completed for this Segment

☒ Hot water wash	☒ Mechanical _____
☒ Warm water wash	☒ Non-mechanical _____
☒ Water deluge	☐ Other _____

Exxon

Treatment as indicated above has been completed. Request demobilization from this segment.

Comments Treatment of segment OI-59 is complete
and ready for demobilization to next segment.

Signature Steve E. Ramsower Date: 7/19/89 Time: 21:20Printed Name Steve E. Ramsower

Existing Shoreline Condition As Visually Determined by USCG

Surface Oil	
Percent	Degree of Oiling
<u>0</u>	Heavy
<u>25</u>	Medium
<u>35</u>	Light
<u>0</u>	Very Light
<u>40</u>	None
100 %	

Subsurface Oil

☒ Yes ☐ No

Comments Light in Pooled
Area on Gravel & Rocks.

Reassessment

☒ Yes - necessary ☐ No - not necessary unless re-oiledADEC rep Comments Gross heavy surface oil removed.Signature Douglas H. Dasher Date: 7/19/89 Time: 2130Printed Name Douglas H. Dasher, EETII, ADEC

FOSC rep

Demobilization approved/disapproved

Comments NO GROSS CONTAMINATIONSignature Paul R. Robery Date: 7/19/89 Time: 2155Printed Name Paul Robery, CW2

SEG DI-60 INSPECTION # 1
DATE 14 JUL 89

SEGMENT
INSPECTION RECORD

7/15/89
TREATMENT MANUAL, 81333
[Signature]

Shoreline Treatment Process(es) Completed for this Segment

☒ Hot water wash	☒ Mechanical _____
☒ Warm water wash	☐ Non-mechanical _____
☐ Water deluge	☐ Other _____

Exxon

Treatment as indicated above has been completed. Request demobilization from this segment.

Comments Treatment of segment DI-60 is complete
and ready for demobilization and deployment to new segme-
Signature Steve E. Ramsower Date: 7/14/89 Time: 16:00
Printed Name Steve E. Ramsower

Existing Shoreline Condition As Visually Determined by USCG

Surface Oil		Subsurface Oil
Percent	Degree of Oiling	☐ Yes ☒ No
<u>0</u>	Heavy	Comments _____ _____ _____ _____ _____
<u>25</u>	Medium	
<u>45</u>	Light	
<u>0</u>	Very Light	
<u>35</u>	None	
100 %		

Reassessment

☒ Yes - necessary ☐ No - not necessary unless re-oiled

ADEC rep Comments Agree with CG evaluations.

Signature [Signature] Date: 7/14/89 Time: 4:10 pm
Printed Name JOHN BAUER

FOSC rep

Demobilization approved/disapproved
Comments NO GROSS CONTAMINATION

Signature [Signature] Date: 7/14/89 Time: 16:00
Printed Name [Signature]

7/17/89
BBD

TREATMENT MANUAL, 6/15/89

SEG DI-61 INSPECTION # 1

DATE 7/17/89

SEGMENT
INSPECTION RECORD

Shoreline Treatment Process(es) Completed for this Segment

- | | |
|--|--|
| ☒ Hot water wash | ☐ Mechanical |
| ☐ Warm water wash | ☒ Non-mechanical |
| ☐ Water deluge | ☐ Other |

Exxon

Treatment as indicated above has been completed. Request demobilization from this segment.

Comments Segment DI-61 treatment is complete and ready for demobilization and deployment to next segment

Signature Steve E. Ramsower Date: 7/17/89 Time: 21:43

Printed Name Steve E. Ramsower

Existing Shoreline Condition As Visually Determined by USCG

Surface Oil		Subsurface Oil
Percent	Degree of Oiling	☐ Yes ☒ No
<u>0</u>	Heavy	Comments _____ _____ _____ _____ _____
<u>20</u>	Medium	
<u>25</u>	Light	
<u>4</u>	Very Light	
<u>55</u>	None	
100 %		

Reassessment

- ☒ Yes - necessary ☐ No - not necessary unless re-oiled

ADEC rep Comments Grass contamination removed

Signature Douglas H. Dasher Date: 7/17/89 Time: 2200

Printed Name DOUGLAS H. DASHER, EE III, ADEC

FOSC rep

Demobilization approved/disapproved

Comments AD GCS DECONTAMINATED

Signature Paul W. Cox Date: 7/17/89 Time: 2201

Printed Name PAUL W. COX

TREATMENT MANUAL, 6/15/89

SEG DI-62 INSPECTION # 1

SEGMENT

DATE 7/27/89

INSPECTION RECORD

Shoreline Treatment Process(es) Completed for this Segment



Hot water wash



Mechanical



Warm water wash



Non-mechanical



Water deluge



Other

Exxon

Treatment as indicated above has been completed. Request demobilization from this segment.

Comments Treatment of segment DI-62 is complete and ready for demobilization to next segment.Signature Steve E. RamsauerDate: 7/27/89 Time: 1620Printed Name Steve E. Ramsauer TP-2 Commander

Existing Shoreline Condition As Visually Determined by USCG

Surface Oil

Subsurface Oil

Percent Degree of Oiling



Yes



No

1

Heavy

10

Medium

25

Light

10

Very Light

54

None

100 %

Comments Small Amtn of light sub surf on two small gr beach areas

Reassessment



Yes - necessary



No - not necessary unless re-oiled

ADEC rep Comments No Inspector provided

Signature

Date: / / Time:

Printed Name

FOSC rep

Comments Demobilization approved/disapproved.No GROSS Contamination7/27/89 1627

23 JUL 89

DI 63

SEG DI-63 INSPECTION # _____

SEGMENT _____

DATE 8/23/89

INSPECTION RECORD

Shoreline Treatment Process(es) Completed for this Segment

- | | |
|---|--|
| ☒ Hot water wash | ☒ Mechanical _____ |
| ☒ Warm water wash | ☐ Non-mechanical <u>Pom Pom & SNARE</u> |
| ☒ Water deluge | ☐ Other _____ |

Exxon

Treatment as indicated above has been completed. Request demobilization from this segment.

Comments TREATMENT OF SEGMENT DISK ISLAND 63 IS COMPLETE
READY FOR DEMOBILIZATION & DEPLOYMENT TO NEW SEGMENT

Signature Charles Tompkins Date: 8/23/89 Time: _____

Printed Name CHARLES TOMPKINS

Existing Shoreline Condition As Visually Determined by USCG

Surface Oil	Degree of Oiling
less than 1%	Heavy
1-8%	Medium
9-30%	Light
31-70%	Very Light
71-90%	None
100%	

Existing Shoreline Condition As Visually Determined by ADEC

Surface Oil	Degree of Oiling
less than 1%	Heavy
1-25%	Medium
26-35%	Light
36-45%	Very Light
46-100%	None

light in
few gravel areas

Subsurface Oil ☒ Yes ☐ No
COMMENT BELOW

Subsurface Oil ☒ Yes ☐ No
COMMENT BELOW

Reassessment
☐ Yes - necessary
☒ No - not necessary unless re-oiled

Reassessment
☒ Yes - necessary
☐ No - not necessary unless re-oiled

ADEC rep

Comments portion of segment was a credit test into
minimal heavy oiling. Recommend demobilization

Signature Kate Doyle Siftar Date: 8/23/89 Time: 1230 HRS.

Printed Name Kate Doyle Siftar

FOSC rep

Demobilization approved/disapproved

Comments to shore off area just worked - no gross contamination observed

Signature Paul B. Gause Date: 8/23/89 Time: 1225

Printed Name Paul B. Gause, LT

COPY: EXXON ADEC FOSC ISCC

TREATMENT MANUAL, 6/15/89

SEG DI-64 INSPECTION # 1

SEGMENT

DATE 7/24/89

INSPECTION RECORD

Shoreline Treatment Process(es) Completed for this Segment



Hot water wash



Mechanical



Warm water wash



Non-mechanical



Water deluge



Other

Exxon

Treatment as indicated above has been completed. Request demobilization from this segment.

Comments Treatment of segment DI-64 is complete and ready for demobilization to next segmentSignature Steve E. RamsauerDate: 7/24/89 Time: 1835Printed Name Steve E. Ramsauer TF-2 Commander

Existing Shoreline Condition As Visually Determined by USCG

Surface Oil

Subsurface Oil

Percent Degree of Oiling



Yes



No

0 Heavy0-75 Medium35-80 Light0 Very Light65-85 None

Comments _____

100 %

Reassessment



Yes - necessary



No - not necessary unless re-oiled

ADEC rep Comments NO ADEC INSPECTOR PROVIDED

Signature _____

Date: / / Time: _____

Printed Name _____

FOSC rep

Demobilization approved/disapprovedComments NO CLASS CONTAMINATIONSignature Steve E. RamsauerDate: 7/24/89 Time: 1845

4/25/89
446SEG DE-65 INSPECTION # 1DATE 7/24/89

SEGMENT

INSPECTION RECORD

TREATMENT MANUAL, 6/15/89

Shoreline Treatment Process(es) Completed for this Segment

☐
☐
☐

Hot water wash

Warm water wash

Water deluge

☐
☒
☒

Mechanical

Non-mechanical

Other removed Debris

Exxon

Treatment as indicated above has been completed. Request demobilization from this segment.

Comments Treatment of segment DE-65 is complete and ready for demobilization to next segmentSignature Steve E. Ramsauer Date: 7/24/89 Time: 1840Printed Name Steve E. Ramsauer TF-2 Commander

Existing Shoreline Condition As Visually Determined by USCG

Surface Oil

Percent Degree of Oiling

<u>0</u>	Heavy
<u>5</u>	Medium
<u>20</u>	Light
<u>0</u>	Very Light
<u>75</u>	None

100 %

Subsurface Oil

☒ Yes☐ NoComments LIGHT IN GRAVEL AREAS

Reassessment

☒

Yes - necessary

☐

No - not necessary unless re-oiled

ADEC rep Comments AD ADEC INSPECTOR PROVIDEDSignature [Signature]Date: / / Time: Printed Name

FOSC rep

Demobilization approved/disapprovedComments NO GROSS CONTAMINATION, HAND CLEANINGONLY. SEGMENT IS A SENSITIVE AREA AND INCLUDES USE OF LARGE EQUIPMENT.Date: 7/24/89 Time: 1846

TREATMENT MANUAL, 6/15/89

SEG DI 67 INSPECTION # 1DATE 8-2-89SEGMENT
INSPECTION RECORD

Shoreline Treatment Process(es) Completed for this Segment



Hot water wash



Mechanical



Warm water wash



Non-mechanical



Water deluge



Other

Exxon

Treatment as indicated above has been completed. Request demobilization from this segment.

Comments Treatment of segment DI 67 is complete
and ready for demobilization to next segment.Signature Melvin D. JonesDate: 8/2/89 Time: 1230Printed Name Melvin D. Jones

Existing Shoreline Condition As Visually Determined by USCG

C.O.E.O. 7

Surface Oil

OPS

Percent

Degree of Oiling

WIK

EWS

356050

100 %

Heavy

Medium

Light

Very Light

None

Subsurface Oil



Yes



No

Comments Approx 10 %
of segment light
to medium subsurface
oil

Reassessment



Yes - necessary



No - not necessary unless re-oiled

ADEC rep Comments No heavy oiling observed. Medium
to light oiling in rich intertidal areas.
Recommend demobilization.Signature Kate SiftonDate: 8/2/89 Time: 1431Printed Name Kate Sifton

FOSC rep

Demobilization approved/disapprovedComments No Gross Contamination

7/22/89
5301

TREATMENT MANUAL, 6/15/89

SEG DI-68 INSPECTION # 1

SEGMENT

DATE 7/21/89

INSPECTION RECORD

Shoreline Treatment Process(es) Completed for this Segment



Hot water wash



Mechanical



Warm water wash



Non-mechanical



Water deluge



Other

Exxon

Treatment as indicated above has been completed. Request demobilization from this segment.

Comments Treatment of segment DI-68 is complete and ready for demobilization to next segment.

Signature Steve E. RamsowerDate: 7/21/89 Time: 16:30Printed Name Steve E. Ramsower TF-2 Commander

Existing Shoreline Condition As Visually Determined by USCG

Surface Oil

Percent Degree of Oiling

0

Heavy

2

Medium

5

Light

0

Very Light

93

None

100 %

Subsurface Oil



Yes



No

Comments

Reassessment



Yes - necessary



No - not necessary unless re-oiled

ADEC rep Comments NO REP AVAILABLE

Signature

Date: / / Time:

Printed Name

FOSC rep

Demobilization approved/disapproved

Comments

NO GROSS CONTAMINATION

Signature

Date: 7/21/89 Time: 1643

7/25/89
PSC

DI 69

TREATMENT MANUAL, 6/15/89

SEG DI-69 INSPECTION # 1

SEGMENT

DATE 7/24/89

INSPECTION RECORD

Shoreline Treatment Process(es) Completed for this Segment

☒ Hot water wash	☒ Mechanical
☐ Warm water wash	☒ Non-mechanical
☒ Water deluge	☒ Other

Exxon

Treatment as indicated above has been completed. Request demobilization from this segment.

Comments Treatment of segment DI-69 is complete and ready for demobilization to next segment.

Signature Steve E. Ramsower Date: 7/24/89 Time: 1930

Printed Name Steve E. Ramsower TF-2 commander

Existing Shoreline Condition As Visually Determined by USCG

Surface Oil

Subsurface Oil

Percent Degree of Oiling

☒ Yes ☐ No

<u>0</u>	Heavy
<u>2</u>	Medium
<u>11</u>	Light
<u>0</u>	Very Light
<u>87</u>	None

100 %

Comments MOISTURE IN ON
AS COULD BE OF CRACK
AREA

Reassessment

☒ Yes - necessary ☐ No - not necessary unless re-oiled

ADEC rep Comments NO ADEC INSPECTION PROVIDED

Signature

Date: / / Time:

Printed Name

FOSC rep

Demobilization approved/disapproved

Comments NO GROSS CONTAMINATION. SITE ASSESSMENT

RECOMMENDED TO CLEAN UP. HEAVY OIL FILM IN APPROX 150 YDS OF SEGMENT

Signature [Signature] Date: 7/24/89 Time: 1835

(version 5/13/89)

SHORELINE PRE-CLEANUP ASSESSMENT BLOCK REPORT

Location (see enclosed map): Ingot Northwest Island Block

Includes Shoreline Segments: IN-34

Submitted : [Signature] Date: 7/8/89
(for Exxon)

ISCC Approval: Shirley K. Christopher Date: 7/12/89

FOSC Approval: [Signature] Date: 7/12/89

The cleanup procedures identified in the Shoreline Cleanup Program are recommended. Modifications to these systems can be made in the field. Exxon and other field personnel are encouraged to suggest innovations and productivity enhancements to the OSC's on-scene representative. The OSC's representative has the authority to approve on-site modifications. The Field Resource Team should be consulted if these actions do not fit within the Ecological Constraints of the Shoreline Cleanup Program. Requirements for safety and the protection of cultural material must be observed.

Distribution:

Exxon Shoreline Coordinator
Exxon Shoreline Supervisor
Exxon SCAT file

FOSC
CDFU
NOAA
EPA
USDA (FS)
USFW
A.DEC
A.FG
A.DNR
CAC
PWSCA
USFS
SHPO

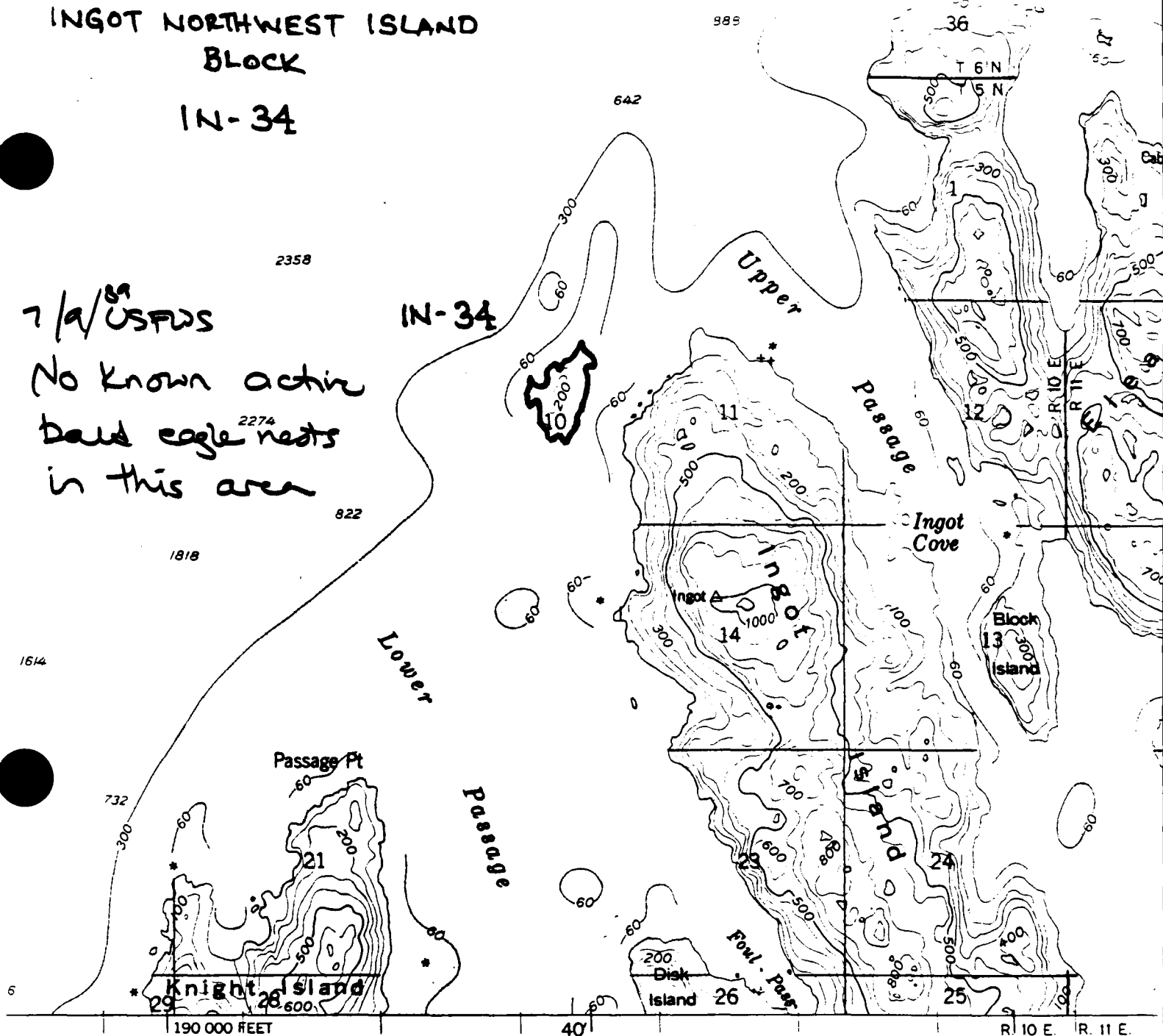
INGOT NORTHWEST ISLAND BLOCK

IN-34

7/9/89
USFWS

No known active
bald eagle nests
in this area

IN-34



1, edited, and published by the Geological Survey
by USGS, NOS/NOAA, and USCE

phy by photogrammetric methods from aerial photographs
350, field annotated 1951. Map not field checked
from aerial photographs taken 1983
ted 1987

1 hydrographic data compiled from NOS/NOAA
6700(1983), and 16705 (1982)

ormation is not intended for navigational purposes

on and 1000-meter grid ticks shown in blue:

al Transverse Mercator, zone 6

-foot grid ticks based on Alaska coordinate

3. 1927 North American Datum

the predicted North American Datum 1983 move

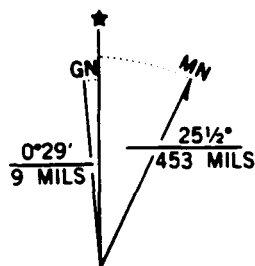
lines 62 meters north and 116 meters east

id lines represent unsurveyed and unmarked locations

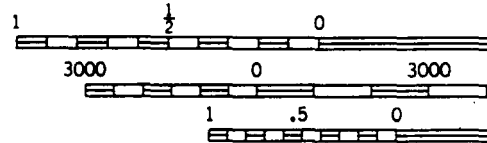
mined by the Bureau of Land Management

14, Seward Meridian

and area is within the Chugach National Forest



UTM GRID AND 1987 MAGNETIC NORTH
DECLINATION AT CENTER OF MAP
DIAGRAM IS APPROXIMATE



DEPTH CURVES AND
SHORLINE SHOWN
THE

FAIRBANKS, ALASKA 99
A FOLDER DESCRIBING

(version 5/02/89)

SHORELINE CLEANUP PROGRAM

DATE 7/8/89

SHORELINE SEGMENT IN-34

LOCATION: (see enclosed map) Ingot Island - Unnamed Island off
northwest end

ADEC NO. _____ SHORELINE ASSESSMENT DATE: 7/7/89

Recommended Cleanup Activity(ies):

- Manually remove contaminated drift material (fucus) and patches of mousse.
- Flood/flush with warm to hot water (up to 140 F) on low angle beaches.
- Use moderate to high pressure warm to hot water washing on rock and oiled logs.
- Use other approved methods as appropriate.

Priorities Considerations:

Class 3-4: Moderate to light oil
A: Resources present

Ecological Constraints (from site survey):

Work at mid tide + or take appropriate measures to protect lower intertidal zone. An active bald eagle nest is located in this segment. See advisory.

Archeological Constraints (from site survey):

No access to forest zone along western shoreline of island. If heretofore undiscovered cultural materials are uncovered during cleanup, contact Exxon's Archeological Field Director and take actions prescribed in the Operational Guidelines for Shoreline Cleanup dated 4/21/89 as amended.

Charles E. Holmes
State Historic Preservation Officer *

Date: July 8, 1989

ISCC: Sherry K. Christopher

Date: 7/12/89

EXXON: Deal

Date: July 12 - 89

FOSC: C. E. Miller

Date: 7-12-89

* Signature required to satisfy stipulations in Alaska DNR land use permits for tide and submerged lands .

SHORELINE OIL EVALUATIONDate: July 7, 89 Time: 0813-1133 hrObserver: MannSurveyed From: Foot/Boat/Helio/PlaneWeather: (Sun)/Cloud/Rain/Snow/F**LOCATION** unnamed islet off NW coast of**LOCATION** Ingot Island, N end of Knight Island **SEGMENT NUMBER** IN-34**LENGTH OF SHORELINE SEGMENT:** 2 K m**ACCESS:** Foot/Vehicle/Boat/Barge/Helio/Float Plane**SHORELINE:****Shoreline Type:** SPI/BEA/COV/HLD/STRT**Slope:** LANG/HANG/VER**Wave Exposure:** High/Med/Low**Sediment:** B 10% / C 5% / P 5% / G 1% / S 1% / M 0% / R 80%**Drift Debris on Beach:** (Yes)/No Supra/Upper/Mid/Lower Type logs**OIL****Degree of Oiling:** Heavy/Moderate/Light/No Oil/Unobserved**Area of Beach Impact:** SU / SP / H / M / L**Continuous:** (Y)/N % of Segment 90 **Width of Band:** 1-2 m**Sporadic:** (Y)/N % of Segment 10**Est. Oil Thickness where > 1cm:** NA cm **Est. Oil Penetration:** 10-50 cm**Pooled Oil:** 0 % **"Free" Oil:** 0 % **Coated:** H 70% / M 20% / L 10%**Fresh** 0 % **Mousse** 2 % **Tar Formation:** 98 %**Drift Debris Oiled?** (Yes)/No Supra/Upper/Mid/Lower **Amount:** H/M/L**Comments:**

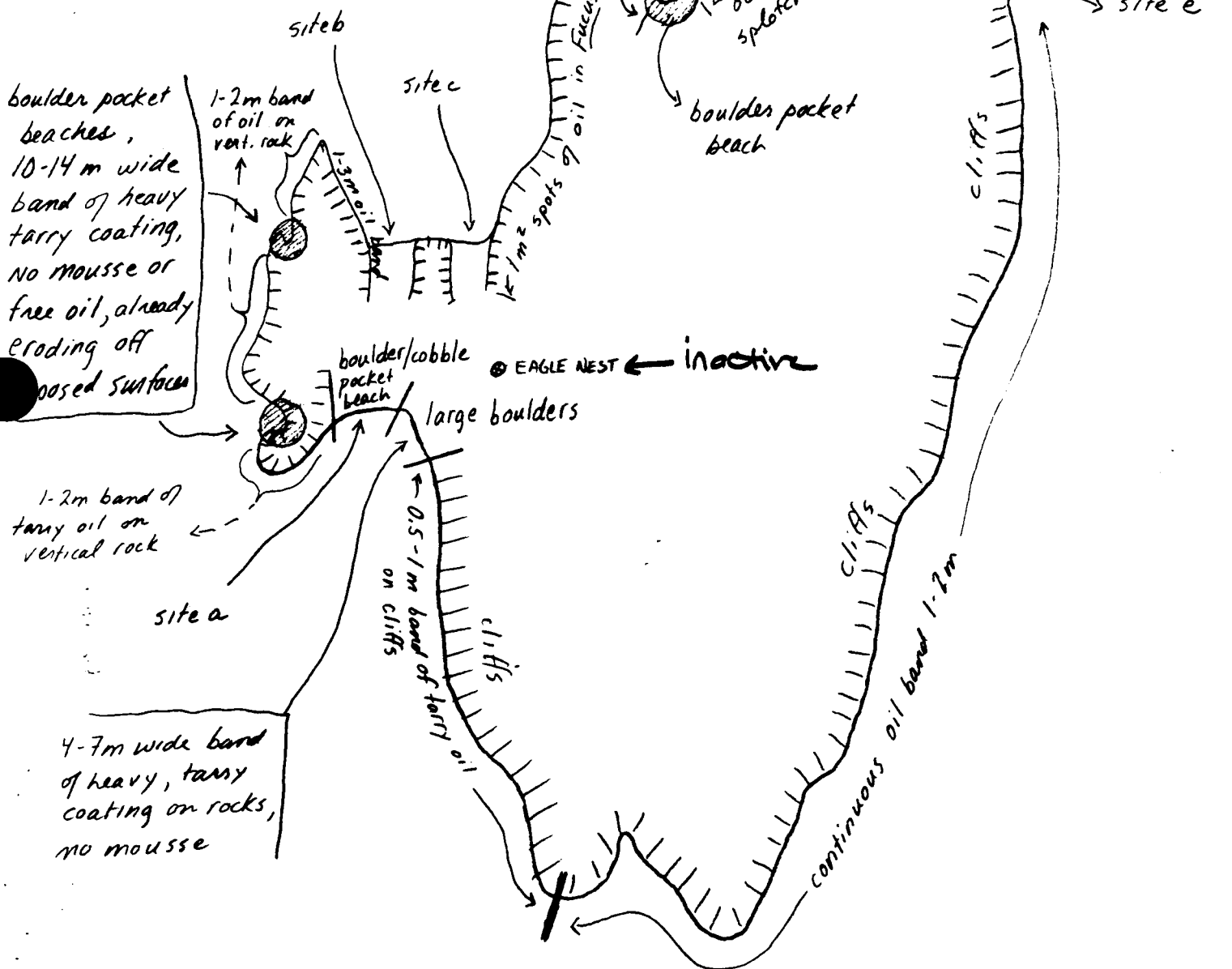
Contamination is heavy on 5 pocket beaches* and their
bordering rock walls. Remainder of coastline has
1-3m of oil coating vertical rock faces. Natural
cleansing through the vigorous wave regime of this islet
is in progress.

(* see sketch maps)

Segment IN-34, islet off
NW end of Ingot Island

North ↑

~100 m



ECOLOGICAL EVALUATION

LOCATION: INGOT ISLAND SITE: Unnamed Island, NW corner OBSERVER: MEYER

LOCATION PREFIX: IN SEG. NO.: 34 LENGTH: 2000 (M)

DATE: 07 / 07 / 89 TIME (HHMM): 0815 - 1130 TIDE HT.: +4 FT to -0.7 (M)

OILED ZONE: Splash High Medium Low

SUBSTRATUM: Rocks Boulder Cobble Gravel Sand Mud

LIVE BIOTA

Fucus (algae): Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N
Dense unoid patches on rock edges of pocket beaches; sparse on ^{cobble/boulder} pocket beaches; some heavily oiled along rock faces

Mytilus (Mussels): Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N
Sites D+E in particular have heavily oiled mytilus beds; oiled mytilus throughout segment

Balanus (Barnacles): Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N
Continuous band in oiled zone;

Littorina
 Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N

Overall sparse, with some dense patches of young + adults. Sparse in oiled zone of pocket beaches but present. Nucella common on mussels and lower oiled band barnacles.

Limpets: Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N
Common in both oiled and unoid areas but not abundant

OTHER OBSERVATIONS: *Seastars patchy in distribution: Pycnopoda, Pisaster, Dermasterias.*

Rich seaweed/algae in LTZ on rock outcrops. Chirona (black katy), ^{nucella eggs} calcareum worms on NE. Tide pool on Site A 2M x 1M had 1000 scalpin in it.

CLEANUP PRECAUTIONS: *Pocket rich lower tidal algae, work as much as possible only when unoid lower tidal is underwater, particularly on Site E. Avoid walking or oiling headrock and associated biota adjacent to ^{cobble} pocket beaches. Eagle Nest (see map).*

MAMMALS: Otters _____ Harbor Seals _____ Sea Lions _____ Whales _____
 Other Deer tracks @ Site B

BIRDS: Eagle Nest NW corner; 1-Eagle; 1-Crow; 2 Fox Sparrows, light ly oiled, feeding in upper oil zone;

GENERAL OBSERVATIONS: 2-Hermit Thrush feeding in drift

ISEWARD C-31

- INGOT ISLAND
- ELEANOR ISLAND

ALASKA DEPT OF
FISH AND GAME

IN-34

35°



Mapped, edited, and published by the Geological Survey
Control by USGS, NOS/NOAA, and USCE
Topography by photogrammetric methods from aerial photographs
taken 1950, field annotated 1951. Map not field checked
Revised from aerial photographs taken 1983

SEWARD B-31

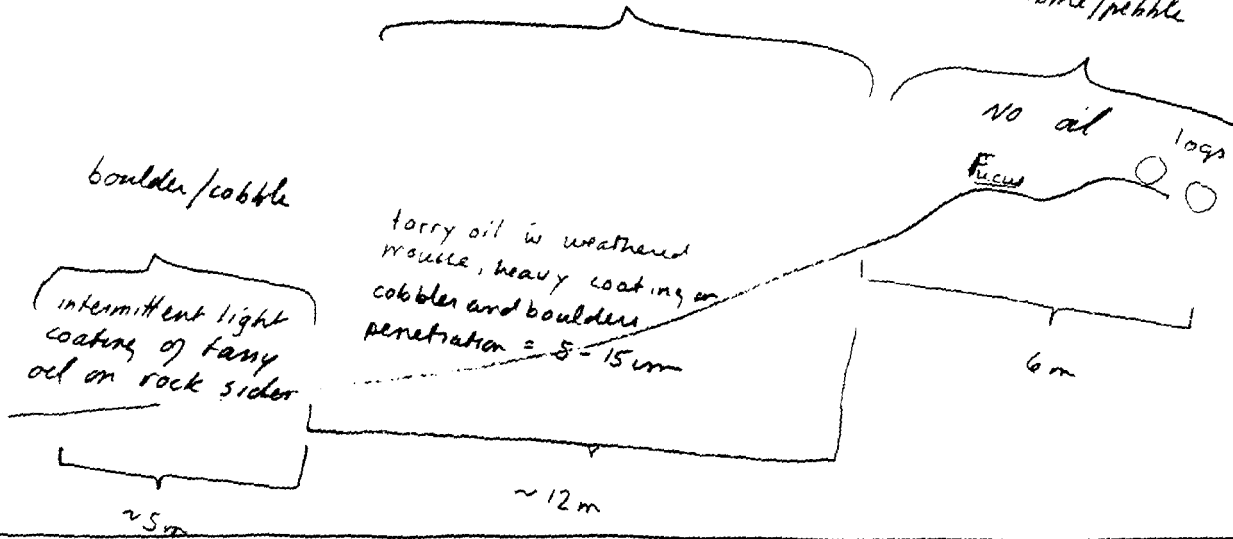
SCALE 1:63,360

Seg. IN-34, site a
X-section at center
of pocket beach

wave energy: mod./high

boulder/cobble armor over
sand/pebble/cobble substrate

cobble/pebble



Segment IN-34, site b
X-section

wave energy: moderate/high

heavily oiled pebbly sand is
buried by 5-10 cm of clean to
lightly oiled pebbly sand
buried oil to 30 cm depth

pebble berm:
oil coatings to
~30 cm

heavily oiled
pebbles to
40 cm

drift logs
splattered w
oil

alder

terrace

↑
waterline at
0915 hr

- no mounds
- sticky 'tar' only
- erosion by wave action in progress

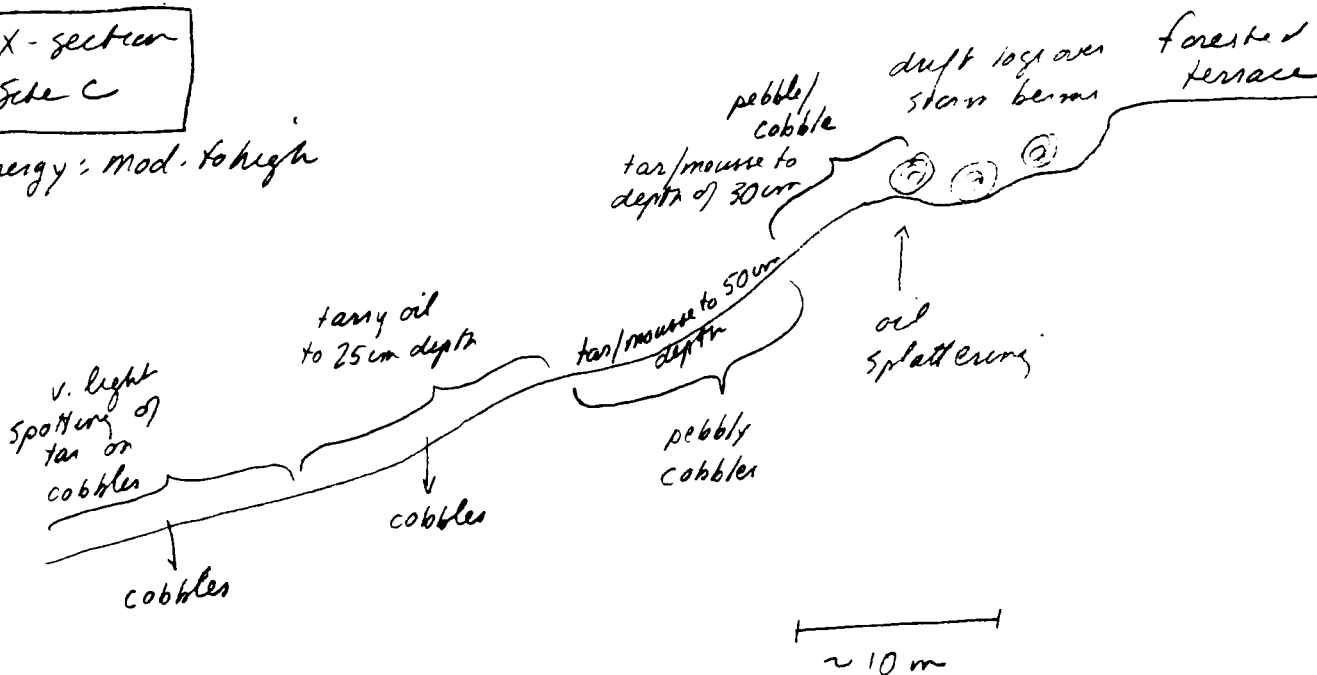
~5m

(1-3 m band of heavy oiling on adjacent rock faces)

Segment IN-34

X-section
Site C

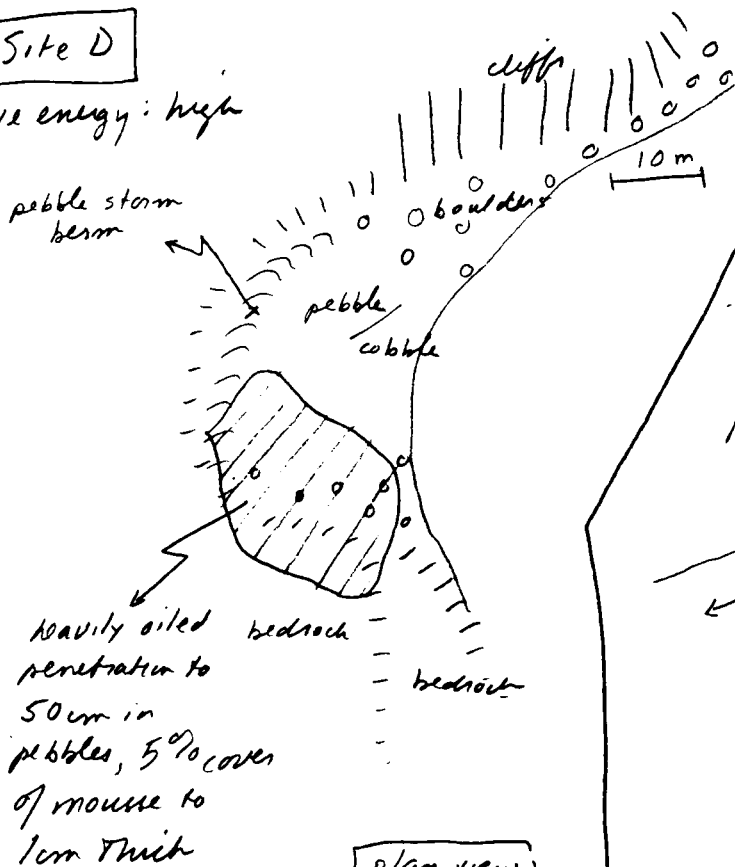
Wave energy: mod. to high



(1-3m band of heavily coated oil on adjacent rock faces)

Site D

Wave energy: high



plan view

Site D



X-section

Segment IN-34

Site e

plan view



(version of 4/29/89)

CULTURAL RESOURCE EVALUATION

Date 7 JULY 1989 Location Small island NW of Sugar Island Site _____

Location Prefix IN Segment # IN-34 Length 2 KM

Survey Method:

Air _____ (A - indicate on map) Boat ✓ (A - indicate on map)

Ground _____ (G - indicate on map)

Known cultural resources (AHRS #) NONE Data Source _____

Oil conditions/beach visibility Light to Moderate

Width of beach zone surveyed 1-100 m Tree fringe surveyed Up to 100m

Cultural resources observed in beach zone (AHRS code) NONE

Cultural resources observed in tree fringe (AHRS code) NONE ?

General observations justifying survey method and segment's site probability:

Shore Profile Vegetation = Spruce, Alder, grass, moss, Canadian Dogwood, ferns. Devil's Club, Blueberry, Rocky, cobbles, gravel beaches.

Fresh Water Sources None

Sea Exposure Protected to the SE.

Access/Safety None

Probability of undiscovered sites in beach zone (circle one) 1 (2) 3 4 5

Monitoring during cleanup needed yes (no) Collection yes (no)

Photos: Color Roll # NONE Frames _____

B/W Roll # 1 Frames _____

Observer(s) TY L. DILLIPLANE

Time survey started 0813 hrs Time survey ended 1133 hrs

Cultural resource considerations/restraints:

If heretofore undiscovered cultural resources are found during the course of any clean-up activities, please notify the Exxon Archaeological director, Dr. Charles Hobley, immediately.

SEG IN-34 INSPECTION # 1DATE 7/31/89SEGMENT
INSPECTION RECORD

Shoreline Treatment Process(es) Completed for this Segment



Hot water wash



Mechanical



Warm water wash



Non-mechanical



Water deluge



Other

Exxon

Treatment as indicated above has been completed. Request demobilization from this segment.

Comments Treatment of segment IN-34 is complete
and ready for demobilization to next segment.Signature Steve E. Ramson Date: 7/31/89 Time: 1445Printed Name Steve E. Ramson TF-2 leader

Existing Shoreline Condition As Visually Determined by USCG

Surface Oil

Subsurface Oil

Percent Degree of Oiling



Yes



No

_____	Heavy
<u>2%</u>	Medium
<u>10%</u>	Light
<u>15%</u>	Very Light
<u>73%</u>	None

100 %

Comments Some SURFACE @
GRAVEL / CORALS Stone

Reassessment



Yes - necessary



No - not necessary unless re-oiled

ADEC rep Comments NOT PRESENT DURING INSPECTION - RAN ACROSS
SEAS w/ TEAM LEADER & OTHERS DURING INSPECTION

Signature

Date: 7 / 31 / Time: 1445

Printed Name

FOSC rep

Demobilization approved/disapprovedComments SEGMENT CONTINUES TO SHIP - NO HEAVY OIL OBSERVED

Signature

Date: 7 / 31 / Time: 1445

Printed Name

THOMAS D. HARRISON

LT USN