[Shoreline evaluations, 1989].

Volume 7

Perry Island

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LIST OF KEY CODES USED ON SHORELINE CLEANUP EVALUATION FORMS

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 vissible oil)

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
APPELGA[illegible] IS	AP
GREEN I[illegible]	GR

LOCATION SUFFIX

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

C:\WP\DATA\SHOREVAL.1

Sent to TR + OR

(version 5/04/89)

SHORELINE PRE-CLEANUP ASSESSMENT BLOCK REPORT

Location (see enclosed map): PERRY ISLAND SOUTHEAST BLOCK

Includes Shoreline Segments: PR-1, PR-2, PR-3

Submitted : _____ Date: 5/21/89
(for Exxon)

FOSC Approval: _____ Date: 5/23/89

ISCC Recommendation: _____ 5/22/89

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

Operations should minimize disturbance to seals present in segment PR1.

(version 5/02/89)

SHORELINE CLEANUP PROGRAM

DATE 5/20/89 SHORELINE SEGMENT PR-1

LOCATION: (see enclosed map) PERRY ISLAND - South Bay

ADEC NO. _____ SHORELINE ASSESSMENT DATE: 5/17/89

Recommended Cleanup Activity(ies):

No cleanup - No oil observed.

Priorities Considerations:

None.

Ecological Constraints (from site survey):

None. No cleanup recommended. Ecological constraints should be reconsidered if cleanup recommendation is changed.

Archeological Constraints (from site survey):
If cleanup is planned, cultural resourse assessment is required. as amended.

Charles E. Holmes
State Historic Preservation Officer * Date: May 21, 1989

EXXON: _____ Date: _____

FOSC: _____ Date: _____

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

(version 4/29/89)

SHORELINE OIL EVALUATION

Date: 05/17/89 / Time: 1430 Observer: MEYER

Surveyed From: Foot/Boat/Helio/Plane Weather: Sun/Cloud/Rain/Snow/Fo

LOCATION

LOCATION PERRY ISLAND - South Bay SEGMENT NUMBER [illegible]

LENGTH OF SHORELINE SEGMENT: 12,500 m

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

SHORELINE:

Shoreline Type: SPI/BER/COV/HLD/STRT Slope: LANG/HANG/VER

Wave Exposure: High/Med/Low

Sediment: B 10 % / C 10 % / P 15 % / G 10 % / S 3 % / M 2 % / R 50 %

Drift Debris on Beach: Yes/No Supra/Upper/Mid/Lower Type LOGS, DEAD PUCUS (NOT OILED)

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: _____ m

Sporadic: Y/N % of Segment _____

Est. Oil Thickness where > 1cm: _____ cm Est. Oil Penetration: _____ cm

Pooled Oil: _____ % "Free" Oil: _____ % Coated: H____ % /M____ % /L____ %

Fresh _____ % Mousse _____ % Tar Formation: _____ %

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

Comments:

Surveyed primarily by boat, no oil seen. Four beaches walked, no oiled debris at tide line, no oil seen on beach.

ECOLOGICAL EVALUATION

LOCATION: FERRY ISLAND South Bay SITE: FR-1 OBSERVER: MEYER

LOCATION PREFIX: FR SEG. NO.: 1 LENGTH: 12,500 (M)

DATE: 05 / 17 / 89 TIME (HHMM): 1430 TIDE HT.: _____ (M)

OILED ZONE: Splash High Medium Low [No OIL]

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 band common on rockfaces and boulders — all healthy, no oil noted.

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

Patches of Littorina noted on rock outcrops in Fucus.

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

Few limpets noted in tidal pools adjacent to pebble beaches.

OTHER OBSERVATIONS: ±15 Harbor Seals hauled out on barrier rock near Beach #9, no oiled individuals noted.

CLEANUP PRECAUTIONS: NO OIL — NO CLEANUP RECOMMENDED

MAMMALS: SEA Otters 4 Harbor Seals 17 ±1 Sea Lions ___ Whales ___
Other LAND OTERS - 2

BIRDS: Great Blue Heron-1; Common Merganser-2; Harlequin Duck-4 (20 together); Cormorant sp.-2; Pigeon Guillemot

GENERAL OBSERVATIONS: Herring Gull-1; Mew Gull-3; Glaucous-winged Gull-32; Hooded sp.-6; Lesser Yellowlegs-1; Sandpiper-2; NW Crow-1; Eagle-1;

(version of 4/29/89)

CULTURAL RESOURCE EVALUATION

Date 5/17/89 Location Perry Island Site

Location Prefix PR Segment # PR-1 Length 12,500

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 No oil

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

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 flat, sand/gravel beaches

Fresh Water Sources several streams are in the beaches, mostly in the cove of the land of the bay

ea Exposure various directions - mostly protected

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 1630 Time survey ended 1800

Cultural resource considerations/restraints:

If heretofore undiscovered cultural materials are uncovered during cleanup contact Byron Archaeologist, C Wilson, immediately

PERRY ISLAND SOUTHEAST BLOCK

(version 5/02/89)

SHORELINE CLEANUP PROGRAM

DATE 5/20/89 SHORELINE SEGMENT PR-2

LOCATION: (see enclosed map) PERRY ISLAND - Southern Tip

ADEC NO. _____ SHORELINE ASSESSMENT DATE: 5/18/89

Recommended Cleanup Activity(ies):

- Only requires one (1) crew and landing craft.
- High pressure, hot water on headland rocks of Beach 2 only.
- No cleanup recommended for other areas of segment (due to lack of access and ecological constraints).

Priorities Considerations:

Class 3B for headland rocks of Beach 2.

Ecological Constraints (from site survey):

No work should be conducted on Beach #1 due to enclosed pond which is oil free. 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'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: May 21, 1989

EXXON: _____ Date: 5/21/89

FOSC: _____ Date: 5/23/89

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

SHORELINE OIL EVALUATION

Date: 5/18/89 Time: 0830 Observer: C. DILLON

Surveyed From: Foot/Boat/Helio/Plane Weather: Sun/Cloud/Rain/Snow/Fo

LOCATION

LOCATION PERCY ISLAND SEGMENT NUMBER [redacted] (Beach 1)

LENGTH OF SHORELINE SEGMENT: 300 m in lagoon ~~x~~ 50 m at water line opening up to for beach 1

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 25 % / C 30 % / P 30 % / ~~G~~ % / S 10 % / M 5 % / R ___ %

Drift Debris on Beach: Yes/No Supra/Upper/Mid/Lower Type logs (small amo

OIL

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

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

Continuous: Y/N % of Segment _____ Width of Band: _____ m

Sporadic: Y/N % of Segment 30

Est. Oil Thickness where > 1cm: _____ cm Est. Oil Penetration: 0 - 2 cm

Pooled Oil: Ø % "Free" Oil: Ø % Coated: H ___ % / M ___ % / L 30 %

Fresh 25 (shine) % Mousse 5 % Tar Formation: Ø %

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

only 2 logs slightly oiled

Comments:

See diagram #1 for details. Beach area contains a tidal lagoon pond with some light oil coating surrounding it about half way around.

Segment consists of 5 beaches of somewhat varying conditions. Some beaches will be described on separate evaluation forms.

SHORELINE OIL EVALUATION

Date: 5/18/89 / Time: 0930 Observer: C. Dillon

Surveyed From: Foot/Boat/Helio/Plane Weather: Sun/Cloud/Rain/Snow/Fo

LOCATION

LOCATION Percy Island SEGMENT NUMBER PR-2 (Beach 2)

LENGTH OF SHORELINE SEGMENT: 40 m for beach 2

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 40 % / P 20 % / G ___ % / S ___ % / M ___ % / R 20 %

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 moderate/heavy coat with free oil o on headland rocks

Continuous: Y/N % of Segment _____ Width of Band: _____ m

Sporadic: Y/N % of Segment 20

Est. Oil Thickness where > 1cm: 4 cm Est. Oil Penetration: Ø cm

Pooled Oil: Ø % "Free" Oil: 10 % Coated: H ___ % / M 10 % / L ___ %

Fresh _____ % Mousse 20 % Tar Formation: _____ %

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

Comments:

Beach is clean except for moderate to heavy coating and free mousse on the headland rocks at the eastern border of the beach.

SHORELINE OIL EVALUATION

Date: 5/18/89 Time: 1000 Observer: C. Dillon

Surveyed From: (Foot)/Boat/Helio/Plane Weather: Sun/Cloud/(Rain)/Snow/Fo

LOCATION

LOCATION Perry Island SEGMENT NUMBER PR-2 (Beaches 3+

LENGTH OF SHORELINE SEGMENT: 200 m

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

→ shallow draft at

SHORELINE:

Shoreline Type: SPI/(BEA)/COV/(HLD)/STRT Slope: LANG/(HANG/VER)

Wave Exposure: (High)/Med/Low

Sediment: B 0 % / C 30 % / P 50 % / G ___ % / S ___ % / 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 ~~Segment~~ beaches 100 Width of Band: 20 m

Sporadic: Y/N % of Segment ___

Est. Oil Thickness where > 1cm: ___ cm Est. Oil Penetration: >10 cm

Pooled Oil: Ø % "Free" Oil: Ø % Coated: H 10 % / M 90 % / L ___ %

Fresh 90% (Stained) % Mousse 10 % Tar Formation: ___ %

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

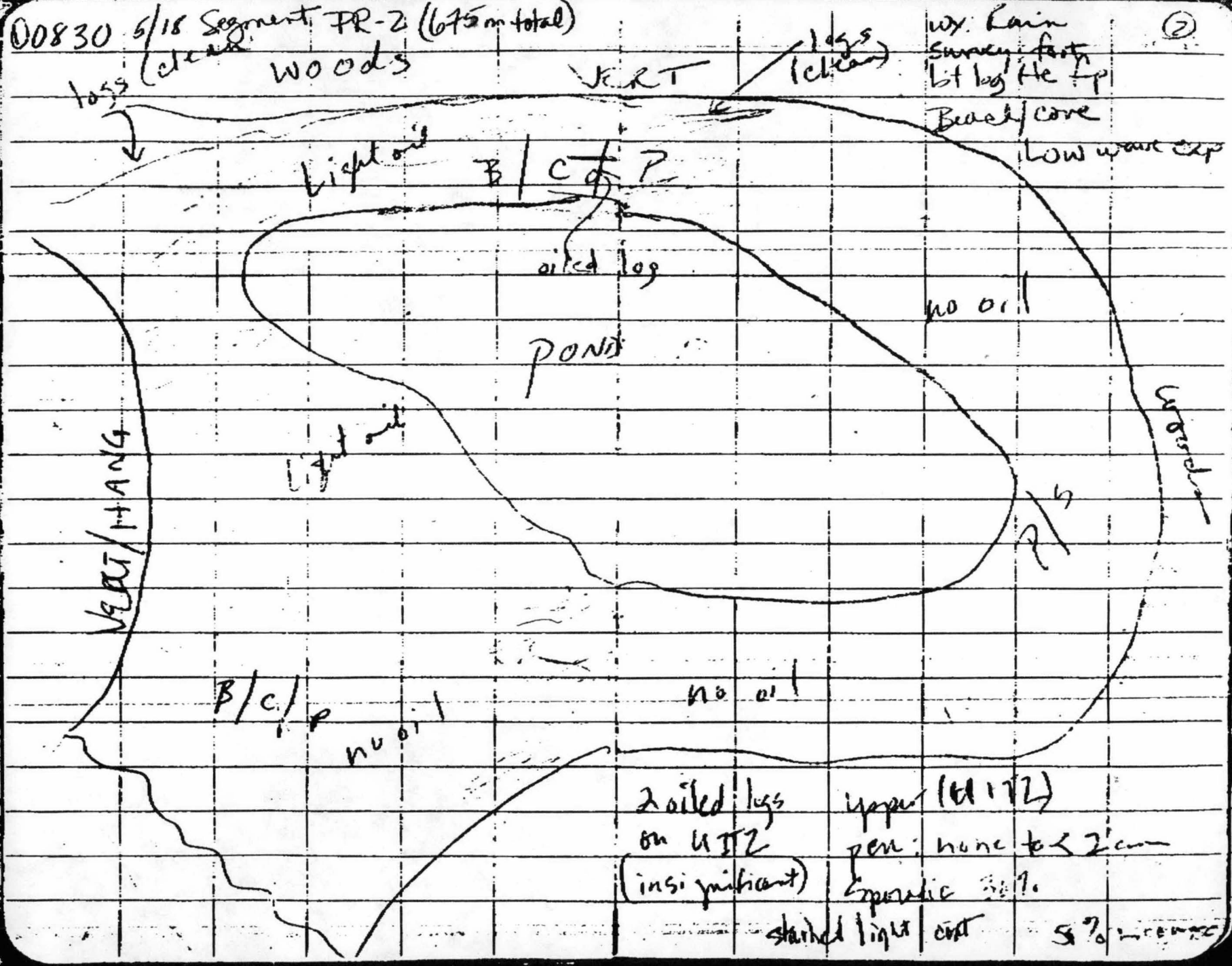
Comments:

This section of the segment has two beaches separated by high & and vertical rocks. Both beaches are primarily pebbles and cobbles with a moderate weathered coating on the surface sediments and penetrates the pebbles at least 10 cm. The beaches are protected (access prevented) by a lot of rocks in the water. Wave action is very high and will probably clean these beaches better than the crews could - if they could even get near the beaches.

0830 5/18 Segment PR-2 (675 m total)

wx: Rain
Survey: fair
bit log He fp
Beach/core
Low wave cap

②



③ Beach 2

Foot survey
Lots | boat | ft

B/C

C/P

clean

mud free at headland

wave exp med

Beach Cove

S

Beach 3

Foot survey
helo | ft | ft pel

logs (clean

algae (mousseed

log

log

log

P | G | S
70 %

B/C
30 %

Beach

per > 16 cm

Cost. 100% L coast

wave exp. high

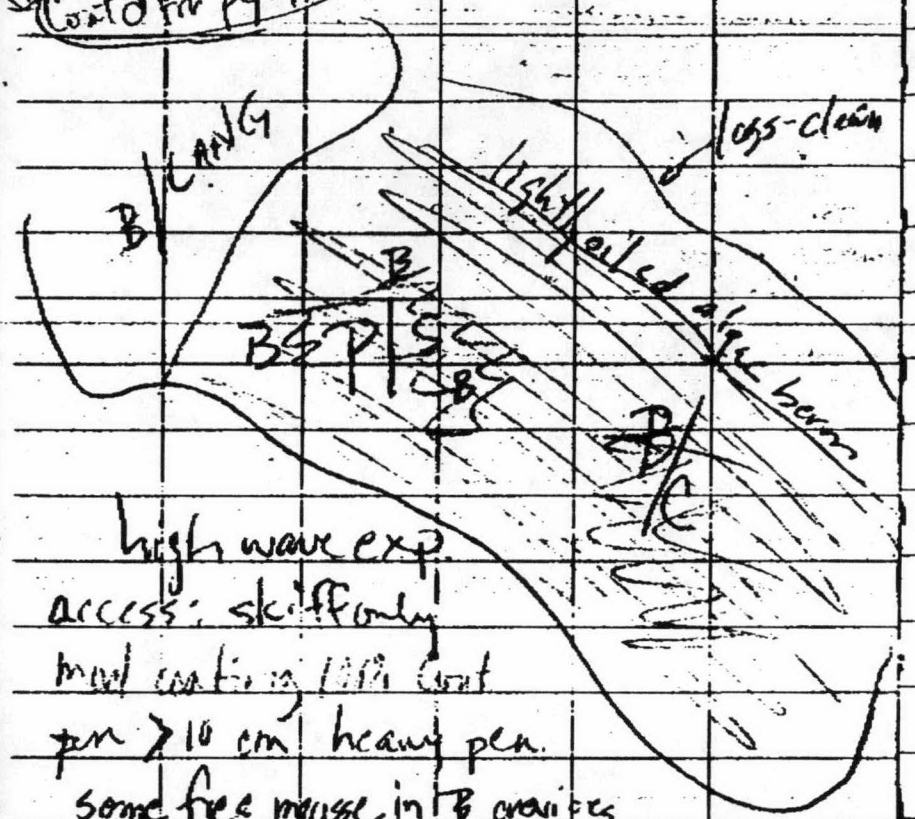
drift debris on U SIZ lightened

logs on SIZ - clean

S

Beach 4 boat survey PR-2 end

(Cont'd for Pg. 4)



high wave exp.
access: skiff only
mod coating 100% Cont
pen > 10 cm heavy pen.
some free mousse in B crevices

not feasible for cleanup No equip access

Beach 5 PR-2 end

boat survey - no access

A lot of rocks in the water preventing boat access to beach. Beach is mostly boulders with some larger rocks and cobbles. Coated moderately with oil on L-M ITZ. Some clean logs on ITZ

ECOLOGICAL EVALUATION

LOCATION: Perry Island SITE: PR-2 OBSERVER: Meyer

LOCATION PREFIX: PR- SEG. NO.: 2 LENGTH: 675 (M)

DATE: 05/18/89 TIME (HHMM): 0830 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

Beach #1, #2, #3 had patches of moussed fucus;

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

Patches of heavily oiled mussels on Beaches #1, #2, #3, 85% + closed (alive).

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

Beach 1, patches of oiled Balanus on westend; Beach 3, patches of oiled Balanus on southend, fair Balanus

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

Littorina in fucus band along headland rock — unoiled area.

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

Few Limpets seen, several oiled but healthy

OTHER OBSERVATIONS: White, waxy (scum-like?) particulate in area, on rocks and floating on water surface

CLEANUP PRECAUTIONS: Leave Beach #1 as is due to enclosed oil-free pond.

MAMMALS: Otters ____ Harbor Seals ____ Sea Lions ____ Whales ____
Other _____

BIRDS: 1 Murrelets sp., 1 Pigeon Guillemot; 2 Oystercatchers, 2 Glaucous-winged Gulls, 1 Kingfisher

GENERAL OBSERVATIONS: _____

(version of 4/29/89)

CULTURAL RESOURCE EVALUATION

Date 5/18/89 Location Perry Island Site

Location Prefix PR Segment # PR-2 Length 675m

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 light with some mousse

Width of beach zone surveyed 2-5 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 steep, heavily cobbled beaches

Fresh Water Sources none

Sea Exposure open to southwest

Access/Safety rocks in front of beach makes access difficult

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 # CW8 Frames 2,3

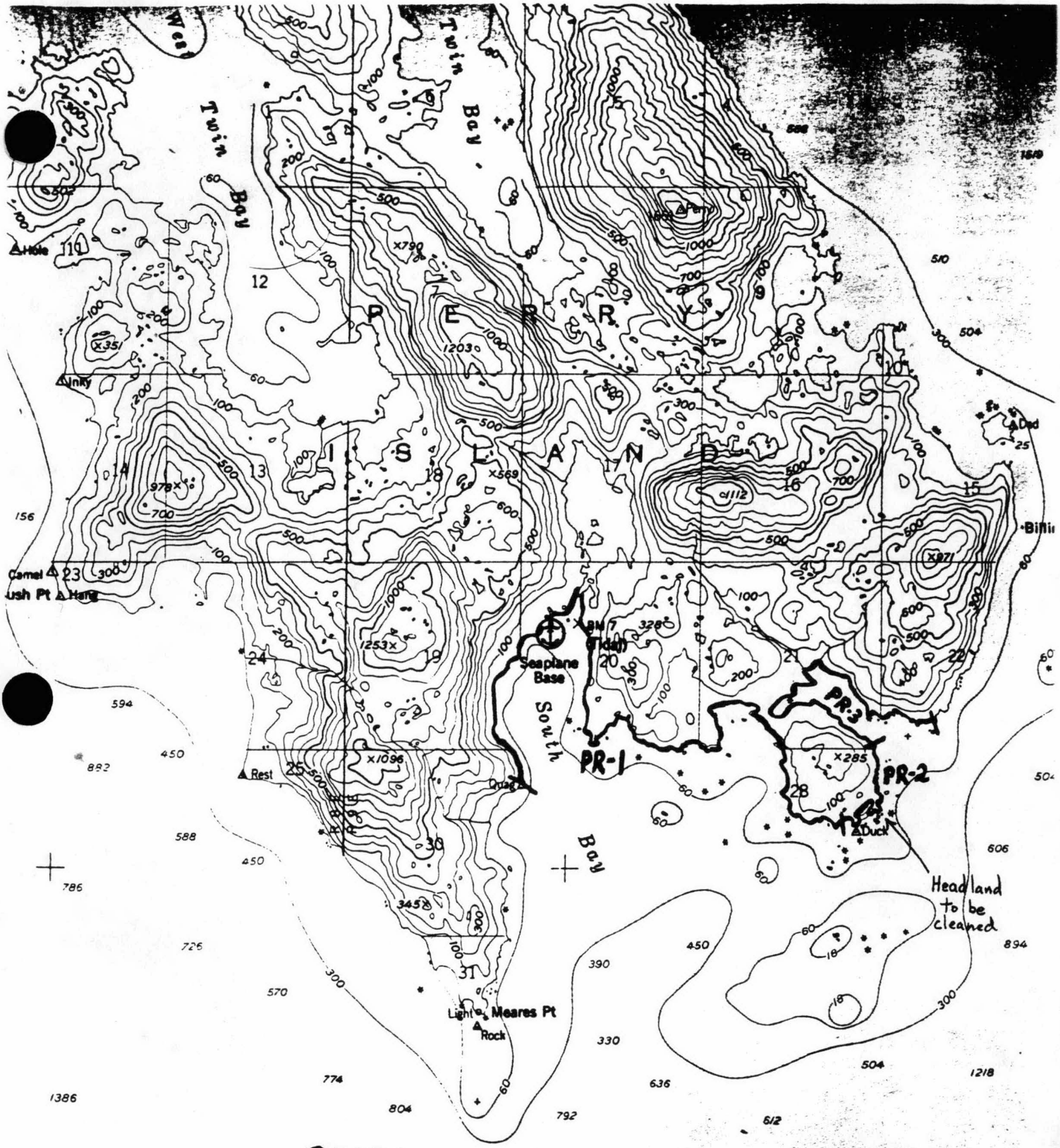
B/W Roll # Frames

Observer(s) C. Wilber

Time survey started 0710 Time survey ended 0825

Cultural resource considerations/restraints:

If heretofore undiscovered cultural resources are uncovered during cleanup contact Epson archaeologist, C. Morkby immediately.



PERRY ISLAND SOUTHEAST BLOCK

(version 5/02/89)

SHORELINE CLEANUP PROGRAM

DATE 5/20/89 SHORELINE SEGMENT PR-3

LOCATION: (see enclosed map) PERRY ISLAND

ADEC NO. _____ SHORELINE ASSESSMENT DATE: 5/18/89

Recommended Cleanup Activity(ies):

- Pitch forks/shovels to pick up oiled algae.
- Saws to cut up branches, tree trunk.
- High pressure, hot water flushing on south bank of cove mouth.
- Low pressure, hot water flushing on beach at north bank of cove mouth.

Priorities Considerations:

Ecological Constraints: Avoid streams or banks of streams unless the Resource Advisory Team Biologist authorizes cleanup on a site-specific basis.
Attempt to leave fucus hold rasts and mytelis beds as intact as possible.
Fucus cleanup should be consistent with shoreline 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 Ziffomeo
State Historic Preservation Officer * Date: May 21, 1989

EXXON: _____ Date: 5/21/89

FOSC: _____ Date: 5/21/89

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

SHORELINE OIL EVALUATION

Date: 5/18/89 / Time: 1100-1300 Observer: C. Dillon

Surveyed From: Foot/Boat/Helio/Plane Weather: Sun/Cloud/Rain/Snow/

LOCATION

LOCATION Perry Island SEGMENT NUMBER PR-3

LENGTH OF SHORELINE SEGMENT: 2500 m

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

only just to mouth of cove.

SHORELINE:

Shoreline Type: SPI/BEA/COV/HLD/STRT Slope: LANG/HANG/VER

Wave Exposure: High/Med/Low

Sediment: B 5 % / C 60 % / P 30 % / ~~G >4~~ / 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 ___ Width of Band: ___

Sporadic: Y/N % of Segment 15

Est. Oil Thickness where > 1cm: ___ cm Est. Oil Penetration: <8 cm

Pooled Oil: Ø % "Free" Oil: Ø % Coated: H ___ % / M 10 % / L 5 %

Fresh 10 % Mousse 5 % Tar Formation: ___ %

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

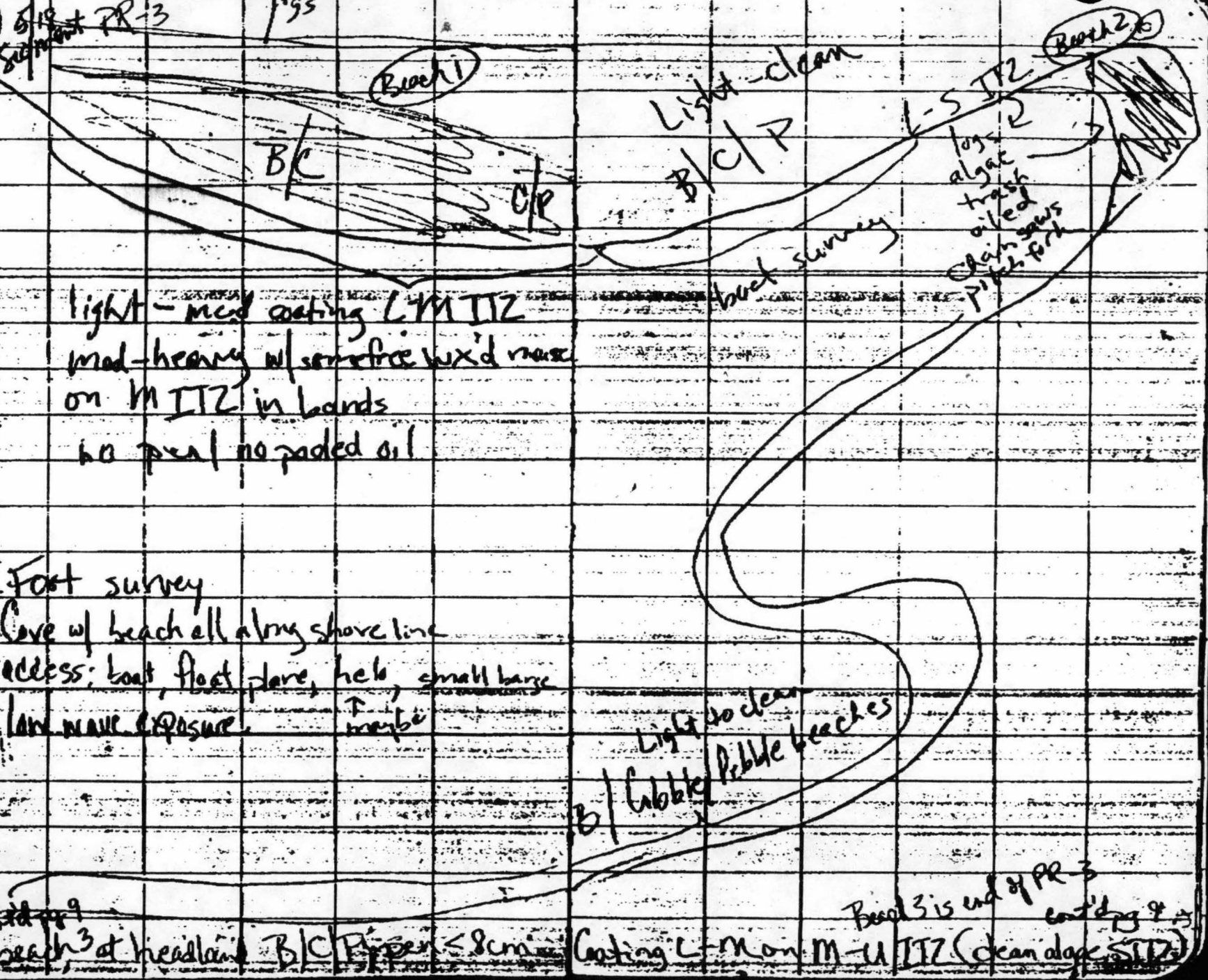
only at head of cove

Comments:

See diagram for details. Segment consists of a deep cove with continuous beaches. Most of segment is clean except moderate coating at east and west banks of the mouth and a lot of oiled debris on the beach at the head of the cove. Debris at head of cove which is oiled includes some small trash, a lot of grass and algae and a lot of branches and small tree trunks/

1100 segment PR-3 1'95

(5)



light - med coating L/M IIZ
mod-heavy w/ some fresh wx'd mousse
on M IIZ in bands
no pool / no pooled oil

Foot survey
Cove w/ beach all along shore line
access: boat, float plane, helo, small barge
low wave exposure ↑ maybe

Light so clean
B/Cobble/Pebble beaches

Beach 3 is end of PR-3
cont'd pg 9 →

(cont'd pg 9)
beach 3 at headland B/C/Pebbles <8cm Coating L-M on M-U IIZ (clean algae SIIZ)

ECOLOGICAL EVALUATION

LOCATION: Perry Island SITE: PR-3 OBSERVER: Meyer

LOCATION PREFIX: PR SEG. NO.: 3 LENGTH: 2500 (M)

DATE: 05 / 18 / 89 TIME (HHMM): 1100 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

Fucus on south side of cove generally oil free + healthy, little fucus on north side.

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

Occasional oiling of mytilus, most cleaned (alive).

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

Occasional oiling of Balanus, [redacted]

Littorina
Patchy (Y)/N Contin. Y/N Dense (Y)/N Sparse Y/N None Y/N

Abundant littorina on rock face with barnacles and fucus

Limpets: Patchy (Y)/N Contin. Y/N Dense Y/N Sparse (Y)/N None [redacted]/N

OTHER OBSERVATIONS: Moderately Heavy horizontal line of debris at head of cove — collection of debris by hand, most substrate.

CLEANUP PRECAUTIONS: _____

MAMMALS: Otters ____ Harbor Seals ____ Sea Lions ____ Whales ____
Other _____

BIRDS: 1 Eagle, 1 Raven, Arctic Tern

GENERAL OBSERVATIONS: _____

(version of 4/29/89)

CULTURAL RESOURCE EVALUATION

Date 5/18/89 Location Perry Island site

Location Prefix PR-- Segment # PR-3 Length 2500

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 light + weathered

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

Cultural resources observed in beach zone (AHRS code) None

Cultural resources observed in tree fringe (AHRS code) EXE

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

Shore Profile bedrock beaches with large boulders

Fresh Water Sources two streams - one near EXE

Sea Exposure protected

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 # CW8 Frames 4, 9

B/W Roll # _____ Frames _____

Observer(s) C. Weber

Time survey started 0830 Time survey ended 1100

Cultural resource considerations/restraints:

If heretofore undiscovered cultural material is uncovered during cleanup notify Eppson - subcontract immediately

PERRY ISLAND SOUTHEAST BLOCK

SEG PR-1

INSPECTION # 1

DATE 6/13/89

TREATMENT MANUAL, 6/3/89

SEGMENT INSPECTION RECORD

Shoreline Treatment Process(es) Completed for this Segment

- [ ] Hot water wash
- [ ] Warm water wash
- [ ] Water deluge
- [ ] Mechanical
- [ ] Non-mechanical
- [x] Other No Cleaning

Exxon

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

Comments No Cleaning Required

Signature Peter A. Allen Date: 6/13/89 Time:

Printed Name Peter A. Allen

Existing Shoreline Condition As Visually Evaluated by ADEC and USCG

Surface Oil

- [ ] Heavily oiled
- [ ] Medium oiled
- [ ] Lightly oiled
- [x] Very lightly oiled (TOM)
- [ ] No oil

Subsurface Oil

- [ ] Heavily oiled
- [ ] Medium oiled
- [ ] Lightly oiled
- [x] Very lightly oiled (TOM)
- [x] No oil

} Block checked by Exxon, not USCG or ADEC

- [ ] No surface oil and no subsurface oil

Reassessment

- [x] Yes - necessary (TOM)
- [ ] No - not necessary unless re-oiled

ADEC rep

Comments Recommend assessment in future to ensure floating oil has not contaminated further

Signature Denny Timmons Date: 6/16/89 Time: 2010

Printed Name DENNY TIMMONS, ENV. ENGR, ADEC

FOSC rep

MOBILIZATION NOT REQUIRED @ THIS TIME

~~Demobilization approved/disapproved~~ (TOM)

Comments DUE TO VERY LITTLE AMOUNTS OF OIL - MOBILIZATION NOT REQUIRED @ THIS TIME.

Signature Thomas D. Harkson Date: 6/16/89 Time: 2010

Printed Name THOMAS D. HARKSON, LT, USCG

COPY: EXXON ADEC FOSC ISCC

FOSC 6/4/89

EXXON VALDEZ

SHORELINE TREATMENT APPROVAL

SHORELINE SEGMENT NUMBER PR3

SHORELINE SEGMENT NAME PERRY ISLAND

SUBMITTED FOR APPROVAL 5/29 89

COMMENTS:

MONITOR (3-5) DAYS AND PACK RE-OILED AREAS WITH SORBENT MATERIAL

James T. Fletcher
Signature of EXXON rep

ADEC comments on the condition of this shoreline segment and action recommendation.
ADEC Rep Bob Cannone accompanied The Survey Team of PR-3, NO OBJECTIONS.

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.

* REOILING WAS MINOR AND CONSISTANT WITH Phase One CRITERIA.

Robert P. Gradow LT SLOTI
Signature of Coast Guard rep

XC: ADEC
EXXON
FSOC

Received
ESCC
8/30/89

PR-02 SEGMENT

DATE 8-27-89 INSPECTION RECORD

Shoreline Treatment Process(es) Completed for this Segment

- [x] Hot water wash
- [x] Warm water wash
- [x] Water deluge
- [ ] Mechanical
- [x] Non-mechanical SWARE
- [ ] Other

Exxon

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

Comments Treatment of Segment PR-02 is complete. Ready for Demobilization and Deployment to New Segment

Signature Harold A Russell Date: 8/27/89 Time: 12:35

Printed Name Harold A Russell

Existing Shoreline Condition As Visually Determined by USCG

Surface Oil

Percent	Degree of Oiling
less than 1%	Heavy
less than 2%	Medium
16%	Light
16%	Very Light
65%	None
100 %	

Subsurface Oil

Heavy/medium in cobble + gravel areas [X] Yes [ ] No

COMMENT BELOW

Reassessment

- [X] Yes - necessary
- [ ] No - not necessary unless re-oiled

Existing Shoreline Condition As Visually Determined by ADEC

Surface Oil

Percent	Degree of Oiling
less than 1%	Heavy
less than 2%	Medium
30%	Light
25%	Very Light
42%	None
100 %	

Subsurface Oil

[X] Yes [ ] No

COMMENT BELOW

Reassessment

- [X] Yes - necessary
- [ ] No - not necessary unless re-oiled

ADEC rep

Comments Some patches of medium oiling have been treated but need swarre because retained due to shearing. Also need to clean up oiled debris + vegetation. Some subsurface in gravel

Signature Joseph S. Stautner Date: 8/27/89 Time: 1315

Printed Name Joseph S. Stautner

FOSC rep Demobilization (approved) disapproved

Comments Approved pending removal of boom + oil soaked debris - approved for bioremediation

Signature Paul B. Ganske Date: 8/27/89 Time: 1310

Printed Name Paul B. Ganske LT

COPY: EXXON ADEC FOSC ISCC

5/28

(version 5/13/89)

SHORELINE PRE-CLEANUP ASSESSMENT BLOCK REPORT

Location (see enclosed map): PERRY ISLAND - EAST BLOCK

Includes Shoreline Segments: PR-4, PR-5, PR-6, PR-7, PR-8, PR-9 PR-10, PR-11

Submitted : _____ (for Exxon) Date: 5/26/89

ISCC ~~Approval~~ Recommendation: _____ Date: 5/28/89

FOSC Approval: _____ Date: 5/28/89

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

PERRY ISLAND EAST BLOCK

PRINCE WILLIAM SOUND

(version 4/29/89)

SHORELINE CLEANUP PROGRAM

DATE 5/24/89 SHORELINE SEGMENT PR-4

LOCATION: (see enclosed map) Perry Island - Southeast

ADEC NO. _____ SHORELINE ASSESSMENT DATE: 5/18/89

Recommended Cleanup Activity(ies):

Recommend no cleanup.

Priorities Considerations:

None.

Ecological Constraints (from site survey):

Cleanup of light oil could severely damage otherwise healthy fucus.

Archeological Constraints (from site survey):
No constraints necessary because no cleanup is recommended. If cleanup activities occur constraints should be reconsidered.

_____ Date: May 25, 1989
State Historic Preservation Officer *

EXXON: _____ Date: 5/25/89

FOSC: _____ Date: 5/26/89

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

Date: 5/18/89 Time: 1600 - 1615 Observer: C. DILLON

Surveyed From: Foot/Boat/Helio/Plane Weather: Sun/Cloud/Rain/Snow/Fog

LOCATION

LOCATION PERRY ISLAND SEGMENT NUMBER PR-4

LENGTH OF SHORELINE SEGMENT: 3200 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 20% / P 10% / G ___% / S ___% / M ___% / R 50%

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 _____ Width of Band: _____ m

Sporadic: Y/N % of Segment 10

Est. Oil Thickness where > 1cm: Ø cm Est. Oil Penetration: Ø cm

Pooled Oil: Ø % "Free" Oil: Ø % Coated: H ___% / M ___% / L 10% (90% clea

Fresh (Stained) 10% Mousse _____ % Tar Formation: _____ %

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

Comments:

Segment consists of vertical cliff rocks and beach areas along a straight and rocky shoreline. The majority of the segment is unoiled. Some small areas are stained by a 1 meter (or less) wide band of oil but this oil band is very sporadic and not at all extensive or continuous anywhere. Oil band is a light coating only.

ECOLOGICAL EVALUATION

LOCATION: PERRY ISLAND SITE: PR-4 OBSERVER: MEYER

LOCATION PREFIX: PR SEG. NO.: 4 LENGTH: 32100 (M)

DATE: 05/18/89 TIME (HHMM): 1600 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

Fucus generally continuous in medium-low tidal zone and unoiled - no cleanup recommended, thus no potential for damage to Fucus.

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

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

Occassional balanus at high tide zone oiled

Littorina
Patchy (Y)/N Contin. Y/N Dense (Y)/N Sparse Y/N None Y/N

Littorina abundant in patches in Fucus on boulders/rocks below oiled high tide zone.

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

No limpets seen, majority of segment covered in large boat.

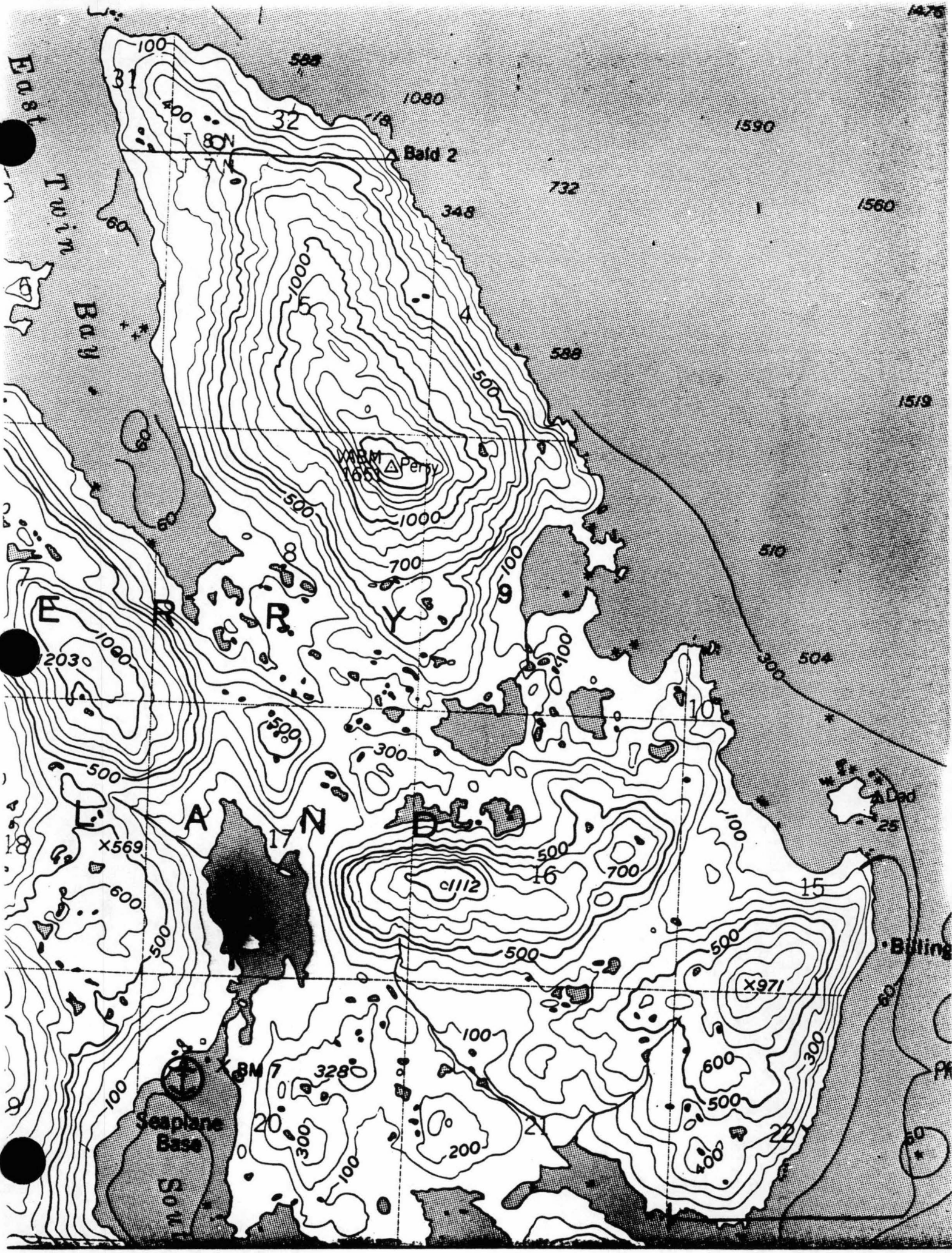
OTHER OBSERVATIONS: 95% of segment surveyed by large boat, oiling was sporatic along high tide mark on vertical rock. Only one beach walked had light oil present, no biota in oiled area except for patches of oiled fucus.

CLEANUP PRECAUTIONS: No cleanup recommended

MAMMALS: Otters 2 Harbor Seals 2 Sea Lions ___ Whales ___
Other ___

BIRDS: 2 Murrelet sp., 1 Raven, 2 Glaucous-winged gulls, 3 pigeon guillemot.

GENERAL OBSERVATIONS: ___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Bay
Bald 2
80N
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Perry
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X569
c1112
X971
BM 7
Seaplane
Base
Billing
Dan
1080
1590
732
1560
348
588
1519
510
504
1203
328
100
200
300
400
500
600
700
1000

(version of 4/25/89)

CULTURAL RESOURCE EVALUATION FOR OILED SHORELINE

Date 5/19/89 Location Perry Island Site

Location Prefix PR Segment # PR-4 Length ~~2100~~ 3200

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 clean

Width of beach zone surveyed ~~0-10m~~ 0-2m Tree fringe surveyed ~~10~~ 0-10

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, bouldered beach and shear walls

Fresh Water Sources none

Sea Exposure open to southeast

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 # Frames

Observer(s) C. Dalton

Time survey started 1600 Time survey ended 1645

Cultural resource considerations/restraints:

If heretofore undiscovered cultural resources are uncovered during cleanup contact Exxon archeologist, C. Holley, immediately

No clean up recommended on cover sheet PL

(version 4/29/89)

SHORELINE CLEANUP PROGRAM

DATE 5/24/89 SHORELINE SEGMENT PR-5

LOCATION: (see enclosed map) Perry Island - East shore and "DAD: Island (Dad is a benchmark designation).

ADEC NO. _____ SHORELINE ASSESSMENT DATE: 5/18/89

Recommended Cleanup Activity(ies): Vacuum or scoop up pooled oil on beach #2. Collect oiled fucus (beaches 1 & 4). Hot (up to 140 F)
water, pressure flushing on boulders and cobbles. Hot water, low pressure flushing on sand areas of island. Use cold water dilution near healthy muscle beds (beach #7). Protect mid and lower intertidal zone from oiling. Avoid stream on beach #5.

Priorities Considerations:
Class 2: heavy oil.
Class A: resources present.

Ecological Constraints (from site survey): Restrict cleanup activity to mid-high tide to avoid oiling of biota in mid-low tide zone. Avoid as much as possible the patchy mussel beds at lower tide line. Use cold water flooding with hot pressure on beach #7, a second hose of cold below cleanup area to cool hot water prior to contact with extensive low-tide mussel beds may be appropriate. On beach #7 protection of the mussel beds should be a priority. REFER TO THE ATTACHED GUIDE ON FUCUS REMOVAL.

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.

_____ Date: May 25, 1989
State Historic Preservation Officer *

EXXON: _____ Date: May 28/89

FOSC: _____ Date: 5/28/89

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

Date: 5/18/89 Time: 1615-1945 Observer: C. DILLON

Surveyed From: Foot/Boat/Helio/Plane Weather: Sun/Cloud/Rain/Snow/Fo

LOCATION

LOCATION PERRY ISLAND SEGMENT NUMBER PR-5

LENGTH OF SHORELINE SEGMENT: 2700 m (includes offshore Island)

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

SHORELINE:

Shoreline Type: SPI/BEA/COV/HLD/STRT Slope: LANG/HANG/VER

Wave Exposure: High/Med/Low

Sediment: B___% / C___% / P___% / G___% / S___% / M___% /R___%

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: _____m

Sporadic: Y/N % of Segment_____

Est. Oil Thickness where > 1cm:_____cm Est. Oil Penetration: _____cm

Pooled Oil: _____% "Free" Oil: _____% Coated: H___% /M___% /L___%

Fresh _____% Mousse _____% Tar Formation: _____%

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

Comments:

Segment consists of 7 beaches and one side of an island. Conditions are somewhat variable ~~from~~ throughout the segment so each section has been evaluated on a separate form. Diagrams of each beach are attached for detail.

Date: 5/18/89 Time: 1615-1645 Observer: C. Dillon

Surveyed From: (Foot)/Boat/Helio/Plane Weather: (Sun/Cloud)/Rain/Snow/Fog

LOCATION

LOCATION Perry Island SEGMENT NUMBER PR-5 (Beaches 1 & 2)

LENGTH OF SHORELINE SEGMENT: ~50 m (beach 1) ~20 m (beach 2)

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 70 % / P___% / 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 30 Width of Band: 3-5 m

Sporadic: (Y)/N % of Segment 40

Est. Oil Thickness where > 1cm: 5-6 cm Est. Oil Penetration: 0 cm

Pooled Oil: 5 % "Free" Oil: <5 % Coated: H 5 % / M 10 % / L 75 %

Fresh (Stained) 95 % Mousse 5 % Tar Formation: ___ %

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

Comments:

Beach 1 has heavy band of oil on vertical rocks at north extent of beach and some lightly oiled algae at the Upper ITZ. See Diagram #1 for details

Beach 2 has 2 pools of mousse 5-6 cm deep at South end of beach trapped among the boulders on the Upper ITZ and middle ITZ. See diagram #1 for details.

Date: 5/18/89 Time: 1645-1730 Observer: C. DILLON

Surveyed From: Foot/Boat/Helio/Plane Weather: Sun/Cloud/Rain/Snow/Fog

LOCATION

LOCATION PERRY ISLAND SEGMENT NUMBER PR-5 (Beaches 3 & 4)

LENGTH OF SHORELINE SEGMENT: 800 m (for both beaches)

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 50 % / 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 40 Width of Band: 1-10 m

Sporadic: Y/N % of Segment _____

Est. Oil Thickness where > 1cm: <4 cm Est. Oil Penetration: 1-4 cm

Pooled Oil: Ø % "Free" Oil: <5 % Coated: H 65 % / M 30 % / L ___ %

Fresh 90 % Mousse 10 % Tar Formation: ___ %

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

Comments:

Beach 3 is clean except for a 15 x 5 ft band of heavy oil on the northern bordering headland rocks. Beach 4 has one large log with some oil on one side and some lightly oiled algae (at the northern end of the beach). The log can probably be cleaned rather than cut up and disposed of.

See Diagram #2 for details.

Date: 5/18/89 Time: 1730-1800 Observer: C. Dillon

Surveyed From: Foot/Boat/Helio/Plane Weather: Sun/Cloud/Rain/Snow/Fog

LOCATION

LOCATION Perry Island SEGMENT NUMBER PR-5 (Island)

LENGTH OF SHORELINE SEGMENT: 150 m (west shore of island only)

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

maybe

SHORELINE:

Shoreline Type: SPI/BEA/COV/HLD/STRT Slope: LANG/HANG/VER

Wave Exposure: High/Med/Low

Sediment: B 10 % / C 70 % / P 10 % / G ~~X~~ % / S 5 % / M ___ % / R 5 %

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 90 Width of Band: _____ m

Sporadic: Y/N % of Segment _____

Est. Oil Thickness where > 1cm: 4 cm Est. Oil Penetration: 3-10 cm

Pooled Oil: 0 % "Free" Oil: 5 % Coated: H 0 % /M 90 % /L 5 %

Fresh 60 % Mousse 15 % Tar Formation: 15 %

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

Comments:

See Diagram #2 for details

SHORELINE OIL EVALUATION

Date: 5/18/89 Time: 1800-1900 Observer: C. Dillon

Surveyed From: (Foot)/Boat/Helio/Plane Weather: (Sun/Cloud)/Rain/Snow/Fo

LOCATION

LOCATION Perry Island SEGMENT NUMBER PR-5 (Beaches 5 &

LENGTH OF SHORELINE SEGMENT: 900 m (both beaches and headlands)

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: B 25% / C 55% / P 15% / 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 90 Width of Band: 2 – 15 m

Sporadic: Y/(N) % of Segment _____

Est. Oil Thickness where > 1cm: 4 cm Est. Oil Penetration: < 8 cm — see comm

Pooled Oil: Ø % "Free" Oil: 5 % Coated: H 55% / M 40% / L __%

Fresh 70 % Mousse 30 % Tar Formation: ____%

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

Comments:

Beach 5 has an algae and pebble berm on the Upper ITZ that is about 30 cm deep. Underneath the berm is a layer of mousse sediment. Recommend not disturbing this during cleanup since it is adjacent to the stream.

See Diagram #3 for details

Date: 5/18/89 Time: 1900-1945 Observer: C. Dillon

Surveyed From: Foot/Boat/Helio/Plane Weather: Sun/Cloud/Rain/Snow/Fog

LOCATION

LOCATION Perry Island SEGMENT NUMBER PR-5 (Beach 7)

LENGTH OF SHORELINE SEGMENT: 50 m (end of segment)

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

→ offshore away from rocks

SHORELINE:

see comments

Shoreline Type: SPI/BEA/COV/HLD/STRT Slope: LANG/HANG/VER

Wave Exposure: High/Med/Low

Sediment: B 45 % / C 5 % / P ___ % / G ___ % / S ___ % / M ___ % / R 50 %

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 70 Width of Band: 8 m

Sporadic: Y/N % of Segment _____

Est. Oil Thickness where > 1cm: <4 cm Est. Oil Penetration: Ø cm

Pooled Oil: Ø % "Free" Oil: 5 % Coated: H 60 % / M 20 % / L 15 %

Fresh 80 % Mousse 20 % Tar Formation: ____ %

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

Comments:

Beach 7 is a large boulder pile bordered all around (including along the water's edge) by high angle and vertical rocks. Access is very difficult and may only be feasible at high tide. See Diagram #4 for details.

DIAGRAM

① PR-4 SE side of Island - clean VERT STRT/BE Beach 2: ~20 m wide

PR-5

1615 5/18/89 Segment PR-5 E. side of Isl.

Partly cloudy/sunny

Beach 1: foot survey

~50 m access: boat, barge, floatplane

wave cut.

beach headland VERT/HANG

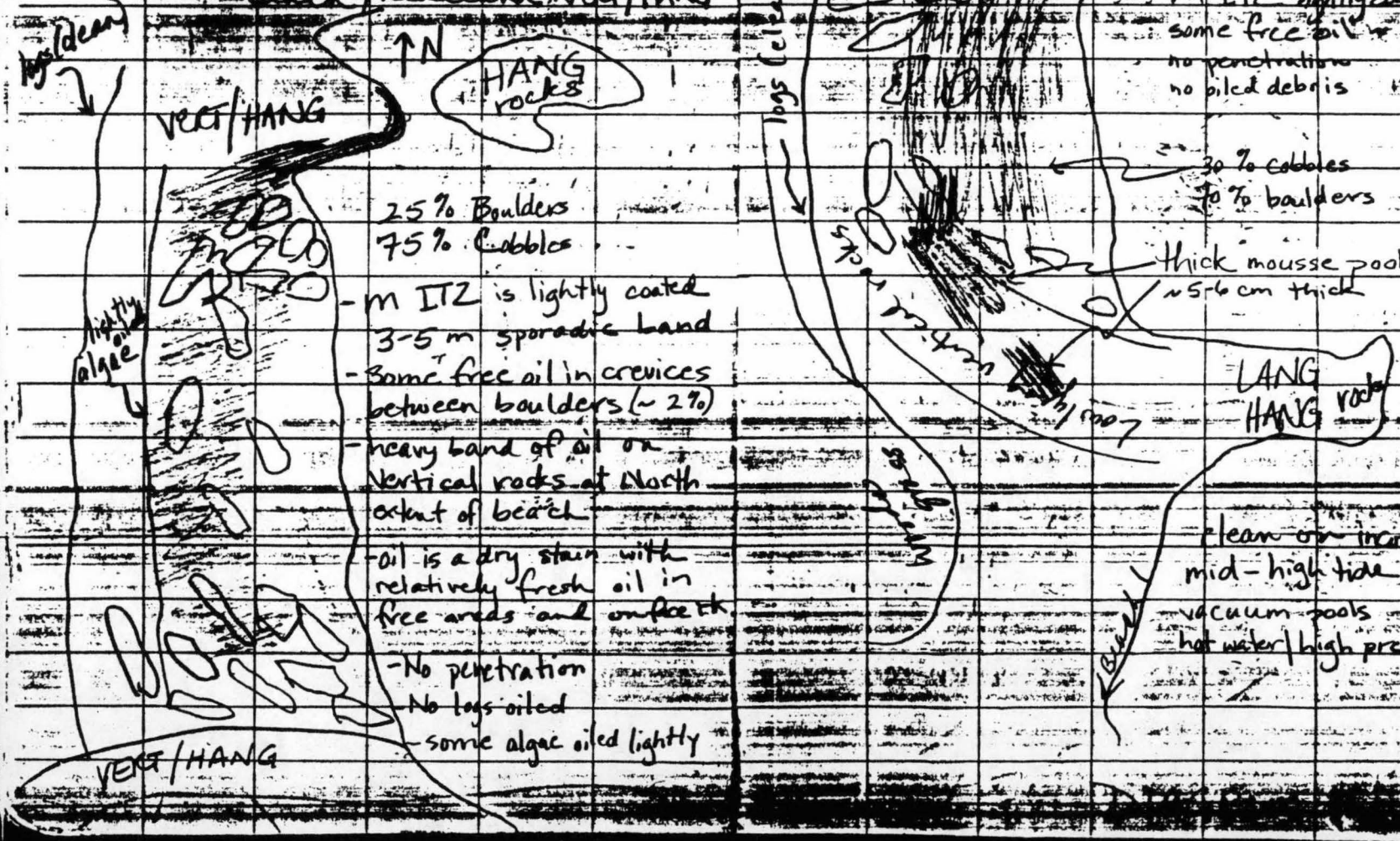


DIAGRAM #2

(11) Beach 3 further North of beach 2 is clean except for a band of heavy oil on the vertical headland rock separating it from Beach 4. The band is about 4-5 ft wide and 12-15 ft long.

There is lots of muscles and snail biota just underneath the oil band.

Beach 4 (Cont'd on pg 13)

↑N

N half of beach: U-M ITZ is oiled med-hvy continuous coating. 80% C | 15% P | 5% B

S. half of beach:

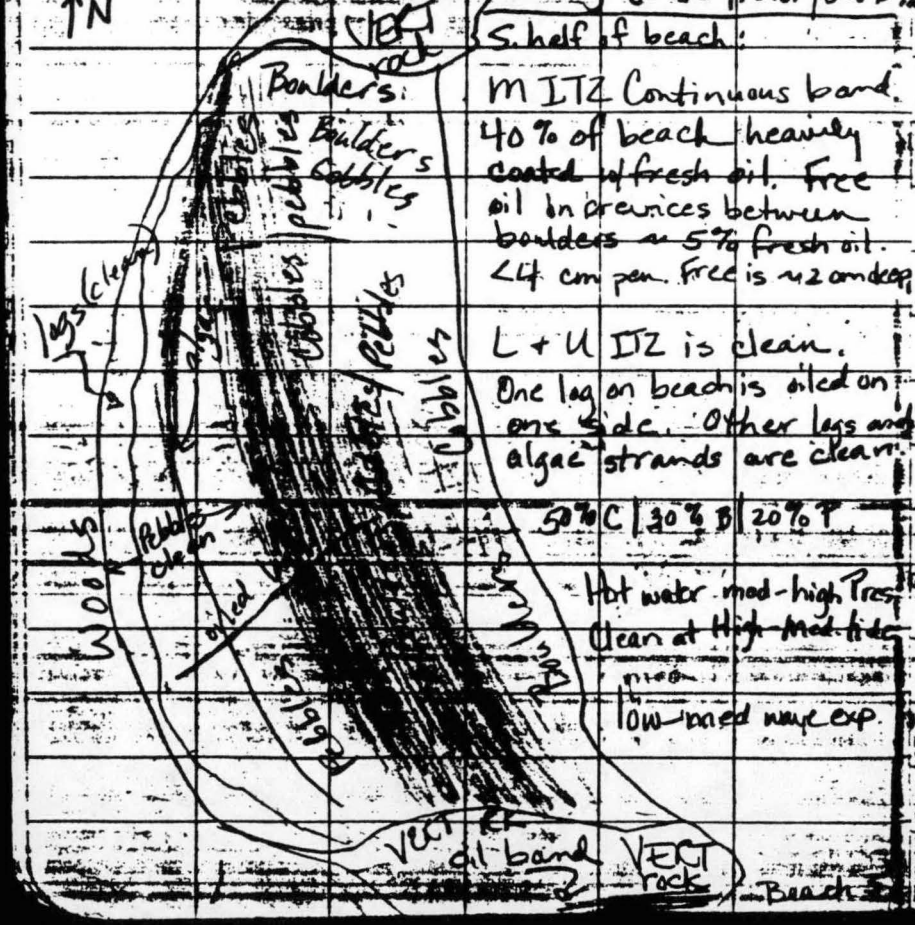
M ITZ Continuous band. 40% of beach heavily coated w/ fresh oil. Free oil in crevices between boulders ~ 5% fresh oil. <4 cm pen. Free is ~2 cm deep

L + U ITZ is clean. One log on beach is oiled on one side. Other logs and algae strands are clean.

50% C | 30% B | 20% P

Hot water med-high Pres. Clean at High-Med tide

low-med wave exp.



5/18:1730 PR-5 ISLAND on W. side of Island off E. side of cove on Perry Is. (12)

N ↑

Hang rocks

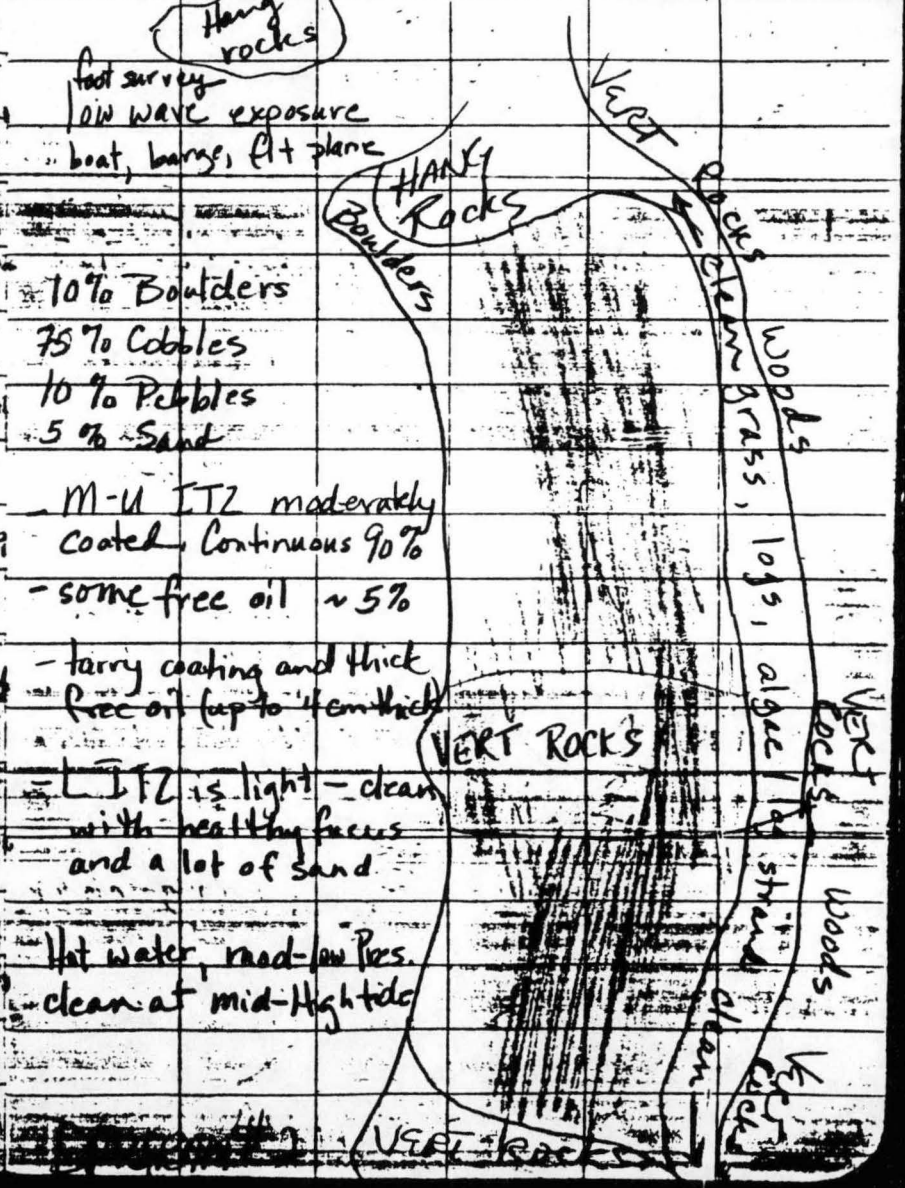
foot survey
low wave exposure
boat, barge, flt plane

10% Boulders
75% Cobbles
10% Pebbles
5% Sand

M-U ITZ moderately coated. Continuous 90%
- some free oil ~5%
- tarry coating and thick free oil (up to 1" cm thick)

L ITZ is light - clean with healthy fucus and a lot of sand

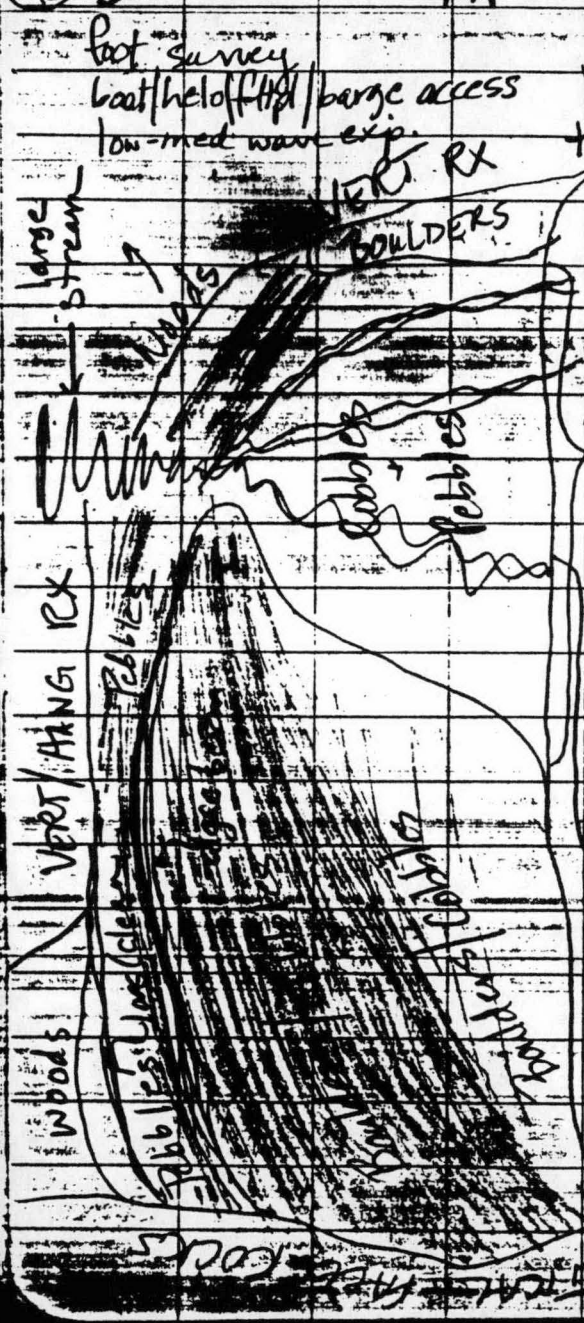
Hot water, med-low Pres. clean at mid-High tide



(13) Beach 5 PR-4 ↑N

DIAGRAM #3

foot survey
boat|helo|float plane|barge access
low-med wave exp.



U+Supra ITZ has pebbles that are clean on surface up to 30cm deep but oiled pebbles underneath

Stream area is clean

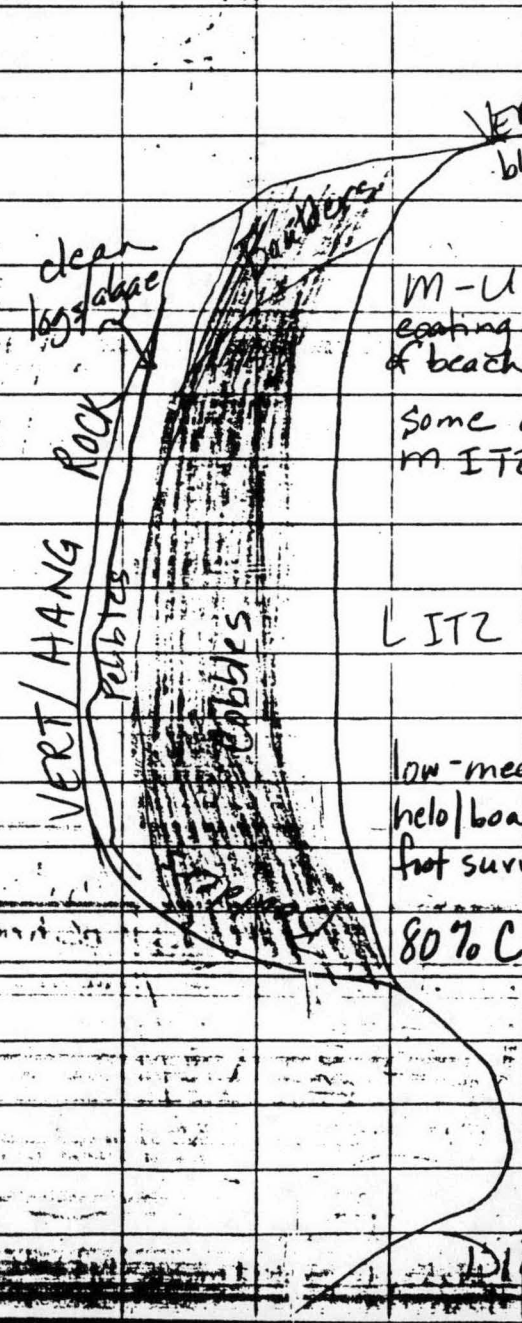
M-U ITZ has continuous band of heavy coated fresh + mousse with areas of free oil between boulders ~ 1cm deep

60% beach oiling
70% fresh/25% mousse
5% free oil

40%B/30%C/30%P

Beach 6 ↑N

(14)



M-U ITZ mod-hvy coating Continuous 100% of beach 10m wide

Some algae strands on M ITZ

L ITZ is light-clean

low-med wave exp
helo|boat|float plane
foot survey

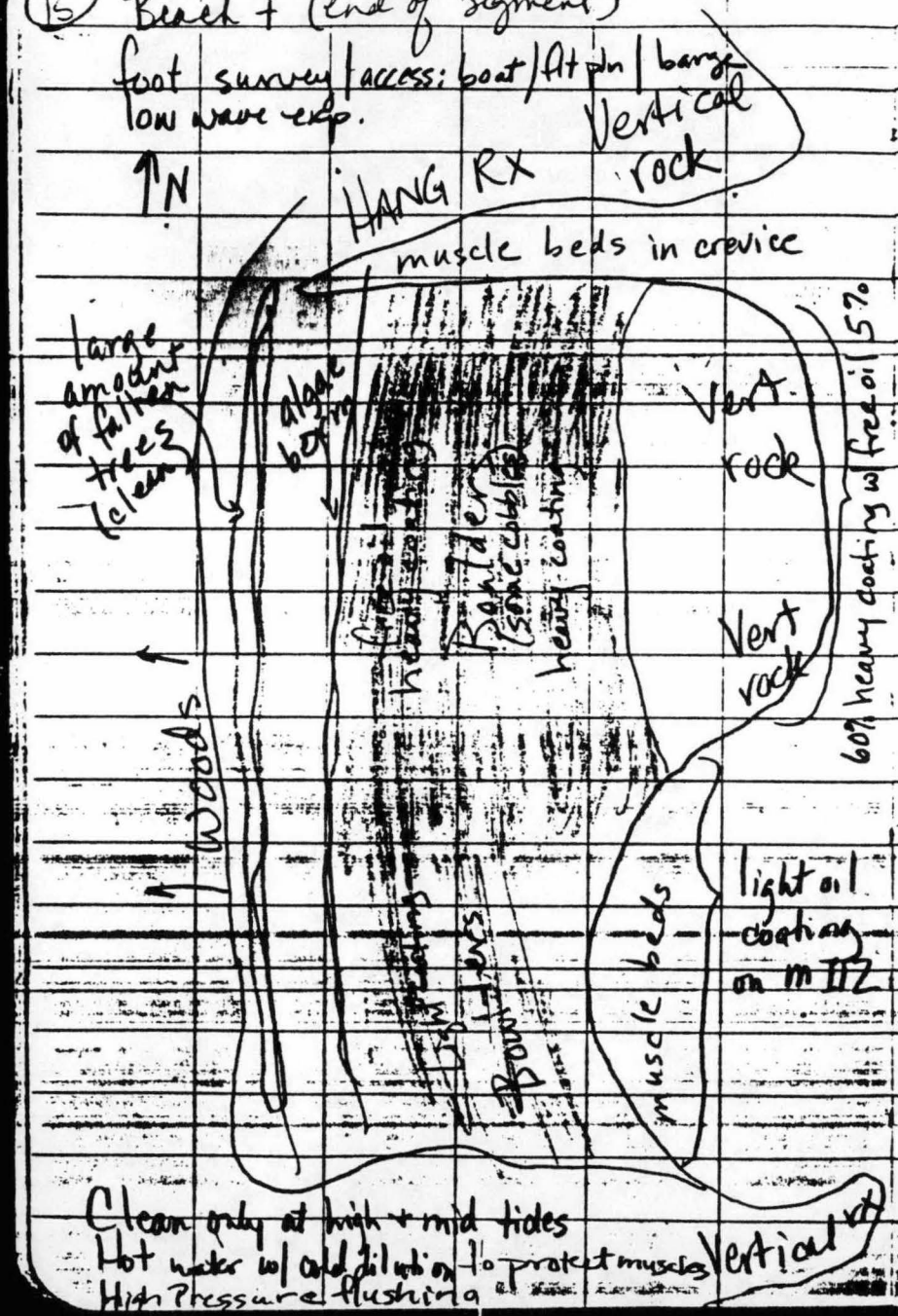
80% C|10% B|10% P

DIAGRAM #3

(15) Beach 7 (end of Segment)

DIAGRAM #7

foot survey | access: boat / flat pan | barge
low wave exp.



Clean only at high + mid tides
Hot water w/ cold dilution to protect muscles
High Pressure flushing

ECOLOGICAL EVALUATION

LOCATION: PERRY ISLAND SITE: PR-5 OBSERVER: MEYER

LOCATION PREFIX: PR SEG. NO.: 5 LENGTH: 2700 (M)

DATE: 05 / 18 / 89 TIME (HHMM): 1600 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

Fucus in oiled zone retaining mousse, healthy in lower tidal zones which generally were free of oiling

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

Mussels in oiled zone coated retaining mousse on shell but closed (alive); Very dense, large patch [redacted] on beach #7 below oiled area that are unoiled (headlands on either side of boulder beach).

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

Goose necked barnacles [redacted] on log on Beach #1

Littorina

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

Not present in oiled zone; present in fair numbers in unoiled fucus along rocky outcrops.

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

Not present in oiled zone.

OTHER OBSERVATIONS: [redacted] Beach #7 has extensive mussel beds on north and south ends of boulder/cobble area, which are at low tide line and lower. Beach #5 has stream.

CLEANUP PRECAUTIONS: Avoid stream on Beach #5. Mussel beds on Beach #7 should be avoided by restricting cleanup activity to mid/high tide and using a SECOND cold water flooding [redacted] hot water cleanup to avoid hot/warm water washing over mussel beds.

MAMMALS: Otter [redacted] 1 Harbor Seals 2 Sea Lions ____ Whales ____

Other _____

BIRDS: 2 Murrelet sp., 3 Pigeon guillemot, 2 wandering tattlers, 1 raven, 1 eagle, 1 yellowlegs sp.

GENERAL OBSERVATIONS: _____

(version of 4/25/89)

CULTURAL RESOURCE EVALUATION FOR OILED SHORELINE

Date 5/19/89 Location Perry Island Site

Location Prefix PR Segment # PR-5 Length 2700

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 lightly oiled

Width of beach zone surveyed 2-10 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, cobbled and bouldered beaches with rocks

Fresh Water Sources two streams

Sea Exposure open to southwest

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 # Frames

Observer(s) C. [illegible]

Time survey started 1615 Time survey ended 2000

Cultural resource considerations/restraints:

If heretofore undiscovered cultural materials are uncovered during cleanup notify Exxon archaeologist, C. Holley


East Twin Bay
Bald 2
WABM 1062
Perry
E R R Y
L A N D
PR-5
Billings
Seaplane Base
Sound
X569
X971
cl112
BM 7
328
588
1080
1590
732
348
1560
1519
510
504
203

(version 4/29/89)

SHORELINE CLEANUP PROGRAM

DATE 5/2489 SHORELINE SEGMENT PR-6

LOCATION: (see enclosed map) Perry Island - East side PR-6 includes two beaches located south of a large lagoon

ADEC NO. _____ SHORELINE ASSESSMENT DATE: 5/19/89

Recommended Cleanup Activity(ies): Wave action is cleaning the light coating of oil which occurs sporadically on this beach and no cleanup activities are therefore recommended on beach #1. Beach #2 requires cleanup, particularly on the north end. Medium to high pressure, hot water (up to 140 F) will likely be required to remove tar deposits.

Priorities Considerations:

Class 4: low oil.
Class A: resources present.

Ecological Constraints (from site survey):

Protect lower intertidal zone during cleanup. Preferably wash when tide level is above that 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: May 25, 1985

EXXON: _____ Date: May 28/89

FISC: _____ Date: 5/28/89

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

SHORELINE OIL EVALUATION

R Reanier
M. BOZEMAN

Date: MAY 19 / Time: 17:00 Observer: M. BOZEMAN

Surveyed From: (Foot/Boat)/Helio/Plane Weather: (Sun)/Cloud/Rain/Snow/Fog

LOCATION

LOCATION PERRY ISLAND SEGMENT NUMBER PR 6 - Beach 1

LENGTH OF SHORELINE SEGMENT: _____ m

Beach 1 = 350 m
Total Segment = 1300 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 50 % / C 50 % / 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_____ Width of Band: _____ m

Sporadic: (Y)/N % of Segment 50 - narrow band 1-2 m in relief

Est. Oil Thickness where > 1cm: NA cm Est. Oil Penetration: 5-10 cm

Pooled Oil: 0 % "Free" Oil: 0 % Coated: H___ % /M___ % /L 99 %

Fresh 0 % Mousse 0 % Tar Formation: <1 % of oil are

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

Comments:

South half of beach has only sporatic oil cover, on north half - ~~est~~ oil is generally only found on the protected or underside of the cobbles indicating substantial cleaning has occurred. Manual clean-up is not warranted at this site.

SHORELINE OIL EVALUATION

M. Bozeman
R. Reanier

Date: May 19/89 Time: 17:30 hrs Observer: R. Reanier

Surveyed From: Foot/Boat/Helio/Plane Weather: Sun/Cloud/Rain/Snow/Fog

LOCATION

LOCATION Perry Island SEGMENT NUMBER PR6-Beach 2

LENGTH OF SHORELINE SEGMENT: _____ m

Beach 2 = 400 m
Total Segment = 1300

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 50 % / C 25 % / P 15 % / 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 Segment 75 Width of Band: 6 to 10 m

Sporadic: Y/N % of Segment _____

Est. Oil Thickness where > 1cm: NA cm Est. Oil Penetration: 5 to 10 cm

Pooled Oil: 0 % "Free" Oil: 0 % Coated: H 0 % / M 10 % / L 20 % (% of entire beach)

Fresh 0 % Mousse 0 % Tar Formation: 5 %

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

Comments: (pebble upper beach) (see map over)

South ½ of beach is boulders - North half is cobbles. Wave action has cleaned top and exposed side of most boulders. Lee and underside of boulders have a light to mod oil coatings. Affected area is 6 to 10 m wide. Recommend clean-up of north end of beach (low priority) Check south end at time of cleaning to determine effectiveness of wave action in further removing oil. If oil has persisted, clean south end of beach on the south end of the beach. Pebble and cobbles on the north end are completely covered; where oil occurs in areas

LOCATION: Perry Island SITE: Beach #1 OBSERVER: M. Bozeman

LOCATION PREFIX: PR SEG. NO.: 06 LENGTH: 350 (M)

DATE: 5/19/89 TIME (HHMM): 1600 TIDE HT.: _____ (M)

OILED ZONE: Splash **High** **Medium** Low

SUBSTRATUM: Rocks **Boulder** **Cobble** Gravel Sand Mud

TOTAL segment 1300 m

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

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: Most oiling at High to mid intertidal zone. Organisms most abundant on Rocky headland points.

CLEANUP PRECAUTIONS: Stay away from lower intertidal - otherwise OK. - No manual cleanup recommended at this time.

MAMMALS: Otters ____ Harbor Seals ____ Sea Lions ____ Whales ____

Other ____

BIRDS: ____

GENERAL OBSERVATIONS: ____

LOCATION: PERRY Is. SITE: Beach #2 OBSERVER: M. Bozeman

LOCATION PREFIX: PR SEG. NO.: 04 LENGTH: 400m (M)

DATE: 5/19/89 TIME (HHMM): 1730 TIDE HT.: _____ (M)

OILED ZONE: Splash [High] Medium Low

SUBSTRATUM: Rocks (Boulder Cobble) Gravel Sand Mud

TOTAL Segment 1300m

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

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: Light to moderate oil at high bottom of beach - well above biota in most cases. North portion of beach more oiled than South.

CLEANUP PRECAUTIONS: STAY Above lower INTERTidal zone for Cleanup -

MAMMALS: Otters ___ Harbor Seals ___ Sea Lions ___ Whales ___

BIRDS: _____

GENERAL OBSERVATIONS: Small stream enters from west - limited fish potential. Surrounding Headland Rocks have light to moderate oiling at High Tide Level.

LOCATION: Perry Is. SITE: Beach #3 OBSERVER: M. Bozeman

LOCATION PREFIX: PR SEG. NO.: 06 LENGTH: _____ (M)

DATE: 5/19/89 TIME (HHMM): 2005 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

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

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
Not Observed

Limpets: Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N
Not Observed

OTHER OBSERVATIONS: _____

CLEANUP PRECAUTIONS: Protect LITZ during cleanup.

MAMMALS: Otters ___ Harbor Seals ___ Sea Lions ___ Whales ___
Other _____

BIRDS: _____

GENERAL OBSERVATIONS: _____

(version of 4/29/89)

CULTURAL RESOURCE EVALUATION

Date 1 PR-6 Location Perry Island Site _____

Location Prefix PR Segment # PR-6 Length 1300

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 sporadic oil, good visibilit

Width of beach zone surveyed 30 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 high angle beach

Fresh Water Sources one small seep on beach

Sea Exposure exposed to NE

Access/Safety easy access / NO safety factors

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 _____

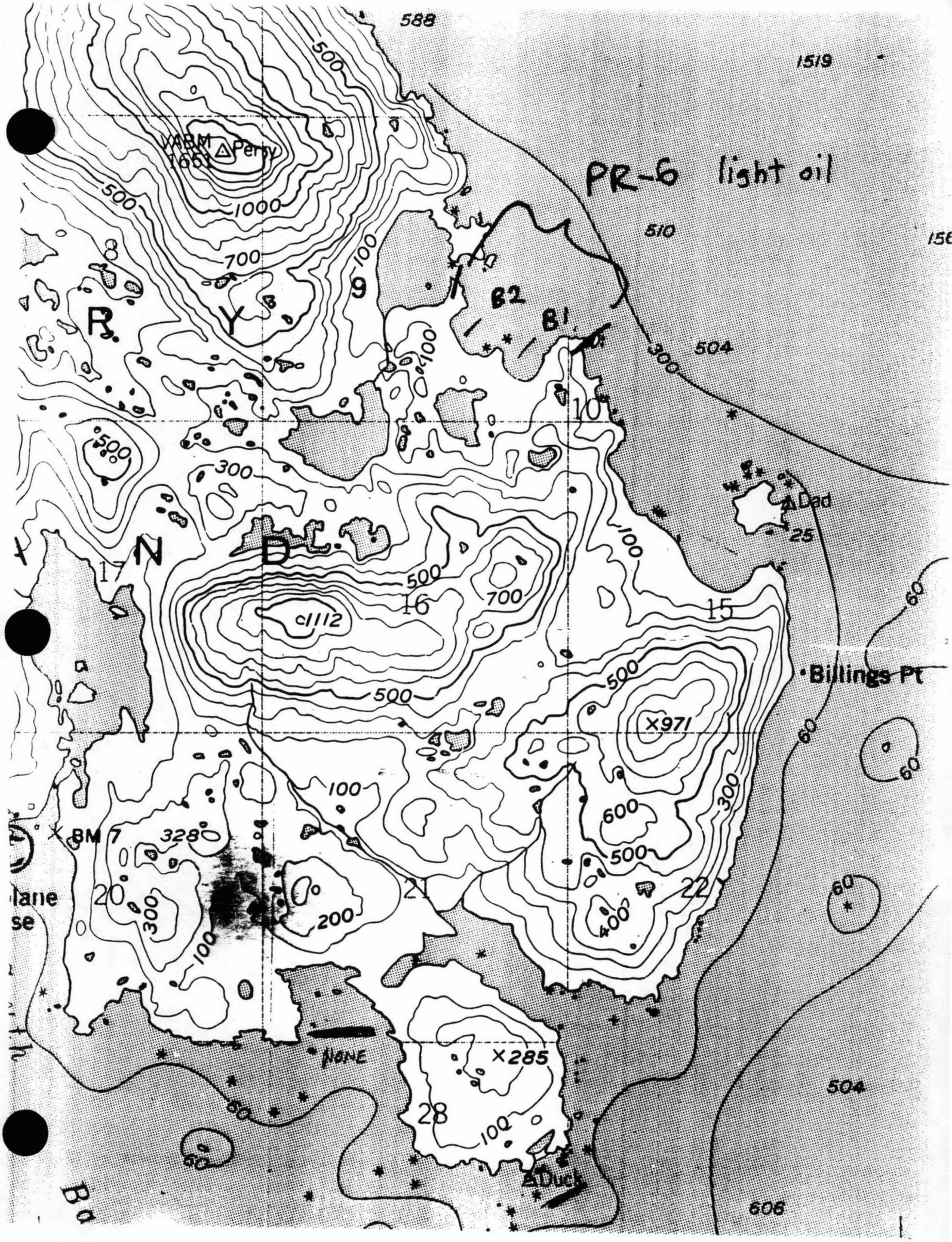
B/W Roll # _____ Frames _____

Observer(s) R. Reanier

Time survey started 1700 Time survey ended 1720

Cultural resource considerations/restraints:

If heretofore undiscovered cultural materials are discovered during cleanup, contact Exxon archeologist C. Mobley immediately.


PR-6 light oil
588
1519
510
504
300
500
1000
700
100
VABM 1653
Perry
9
10
B2
B1
R
Y
N
D
17
16
15
500
700
c1112
Dad
25
Billings Pt
60
X971
600
300
400
22
21
20
BM 7
328
200
100
NONE
X285
28
Duck
608

(version 4/29/89)

SHORELINE CLEANUP PROGRAM

DATE 5/24/89 SHORELINE SEGMENT PR-7

LOCATION: (see enclosed map) Perry Island - small cove on the east side.

ADEC NO. _____ SHORELINE ASSESSMENT DATE: 5/19/89

Recommended Cleanup Activity(ies): Use hot water (up to 140 F) with high pressure on boulder beaches and rocky headlands. Hot water with moderate pressure on cobble beaches containing pockets of sand and pebbles. Use water flooding to carry oil down beach for recovery.

Priorities Considerations:

Class 2-3: moderate/high
Class A: resources present

Ecological Constraints (from site survey): Protect the lower intertidal zone by appropriate means during cleanup. Avoid disturbance of active nesting eagles. Protect stream if it is identified in ADF&G anadromous stream catalogue. REFER TO ATTACHED GUIDE ON BALD EAGLE ADVISORY.

Archeological Constraints (from site survey):
Access by cleanup personnel prohibited near historic structure just above the high tide line. 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: May 25, 1989

EXXON: _____ Date: May 28/89

FOSC: _____ Date: 5/29/89

* Signature required to satisfy stipulations in Alaska DNR land

SHORELINE OIL EVALUATION

Date: MAY 19 / Time: 10:20 hrs → 11:45 hrs Observer: M BOZEMA

Surveyed From: (Foot/Boat)/Helio/Plane Weather: (Sun)/Cloud/Rain/Snow/Fog

LOCATION

LOCATION PERRY ISLAND SEGMENT NUMBER PR-07

LENGTH OF SHORELINE SEGMENT: 1800 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 50 % / C 30 % / P 10 % / G ___ % / S ___ % / M ___ % / R 10 %

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

↳ logs on < 10% of beach

OIL

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

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

Continuous: (Y)/N % of Segment 99 Width of Band: 3 to 15 m

Sporadic: Y/(N) % of Segment ___

Est. Oil Thickness where > 1cm: N/A cm Est. Oil Penetration: 5 to 10 cm

Pooled Oil: 0 % "Free" Oil: 0 % Coated: H 20 % / M 55 % / L 25 %

Fresh 0 % Mousse 0 % Tar Formation: 1 %

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

Comments:

A 2.5 Km wide sheltered bay with a narrow entrance channel. There is a rock in the middle of the access channel. The south side of the channel is deeper. Consider bringing in equipment at high tide. During a rising tide, oil was observed to being flooded off the beach and formed a slick in the bay. Areas of beach downslope of small gravel/boulder bed, steep gradient streams are comparitively clean of oil. We do not have a data back camera and so no photos were taken.

LOCATION: Perry Island SITE: East Side OBSERVER: M. Bozeman

LOCATION PREFIX: PR SEG. NO.: 07 LENGTH: 1800 (M)

DATE: 5/19/89 TIME (HHMM): 10:15 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

Fairly continuous band except along cobbles on west side.

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

Few patches along rock substrates near mouth

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

Dense to sparse depending upon location

Littorina

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

None observed

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

OTHER OBSERVATIONS: Extensive Eelgrass beds throughout most of sub tidal - steep stream drains into SW corner from lake ≈ 0.5km distant.

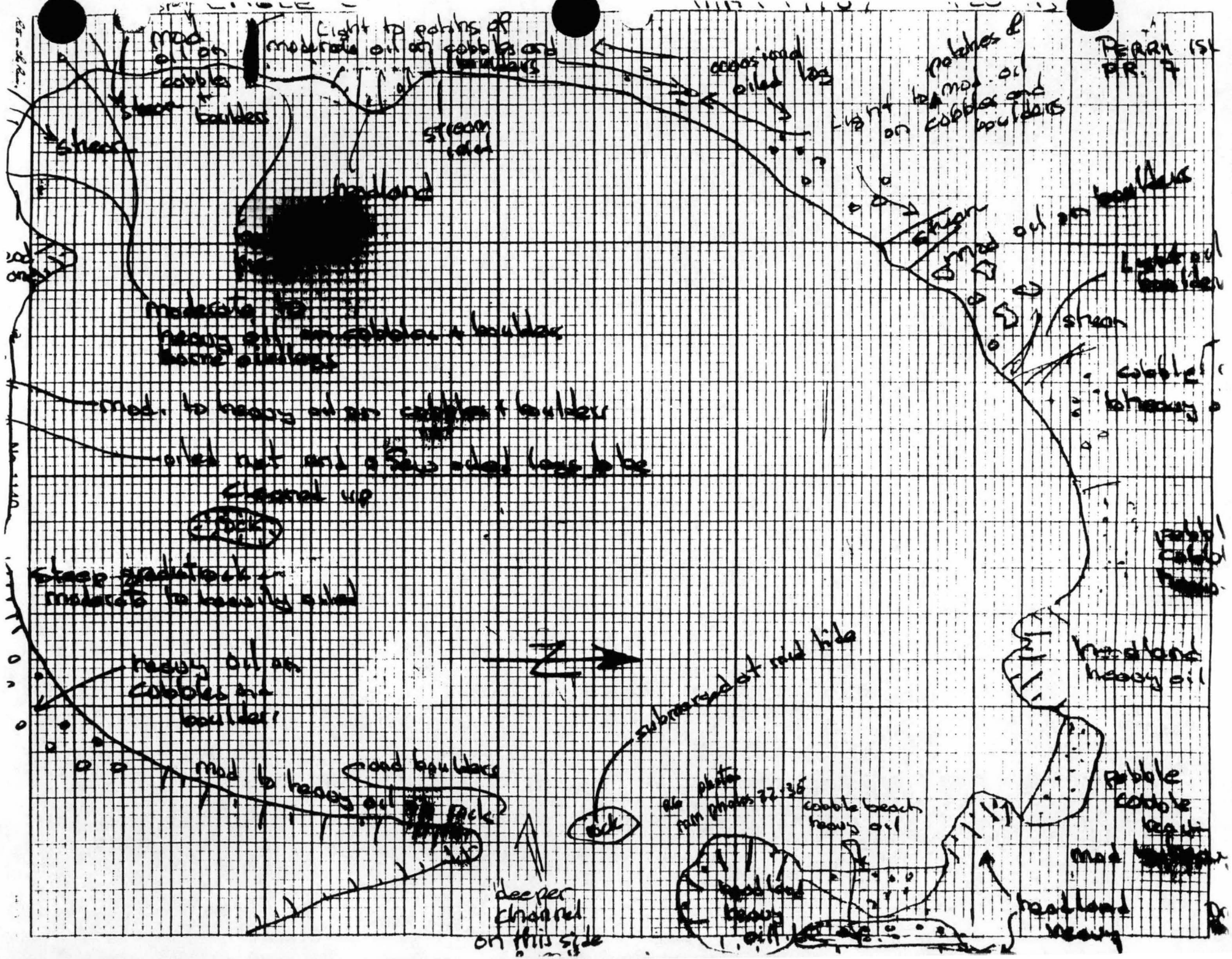
CLEANUP PRECAUTIONS: Protect lower intertidal & subtidal during cleanup. - Protect stream if it is identified in ADF&G anadromous stream catalogue.

MAMMALS: Otters 1 Harbor Seals 1 Sea Lions ___ Whales ___

Other ___

BIRDS: Pair of nesting Eagles at SE entrance to bay

GENERAL OBSERVATIONS: Much of intertidal is oiled - lower intertidal area appears less affected.


Perry Isl
Pr. 7
mod oil on cobble
light to patches of moderate oil on cobbles and boulders
stream
stream
headland
moderate to heavy oil on cobbles & boulders
some oil bags
mod. to heavy oil on cobbles & boulders
oiled net and oiled logs to be cleaned up
rock
steep headlands - moderate to heavily oiled
heavy oil on cobbles and boulders
mod to heavy oil on cobbles and boulders
rock
deeper channel on this side
submerged at mid tide
rock
cobble beach heavy oil
headland heavy oil
pebble cobble
mod
headland heavy
light to mod oil on cobbles and boulders
stream
mod oil on boulders
stream
cobble
heavy

(version of 4/29/89)

CULTURAL RESOURCE EVALUATION

Date 5-19-89 Location Perry Island Site PR-7

Location Prefix PR Segment # PR-7 Length 1600 m

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 Good visibility, moderate oil

Width of beach zone surveyed 10-15 m Tree fringe surveyed —

Cultural resources observed in beach zone (AHRS code) _____

Cultural resources observed in tree fringe (AHRS code) FXF

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

Shore Profile high angle

Fresh Water Sources Stream enters SW corner of bay

Sea Exposure Sheltered bay

Access/Safety Easy access, avoid rocks in right center of inlet
No safety considerations

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 _____

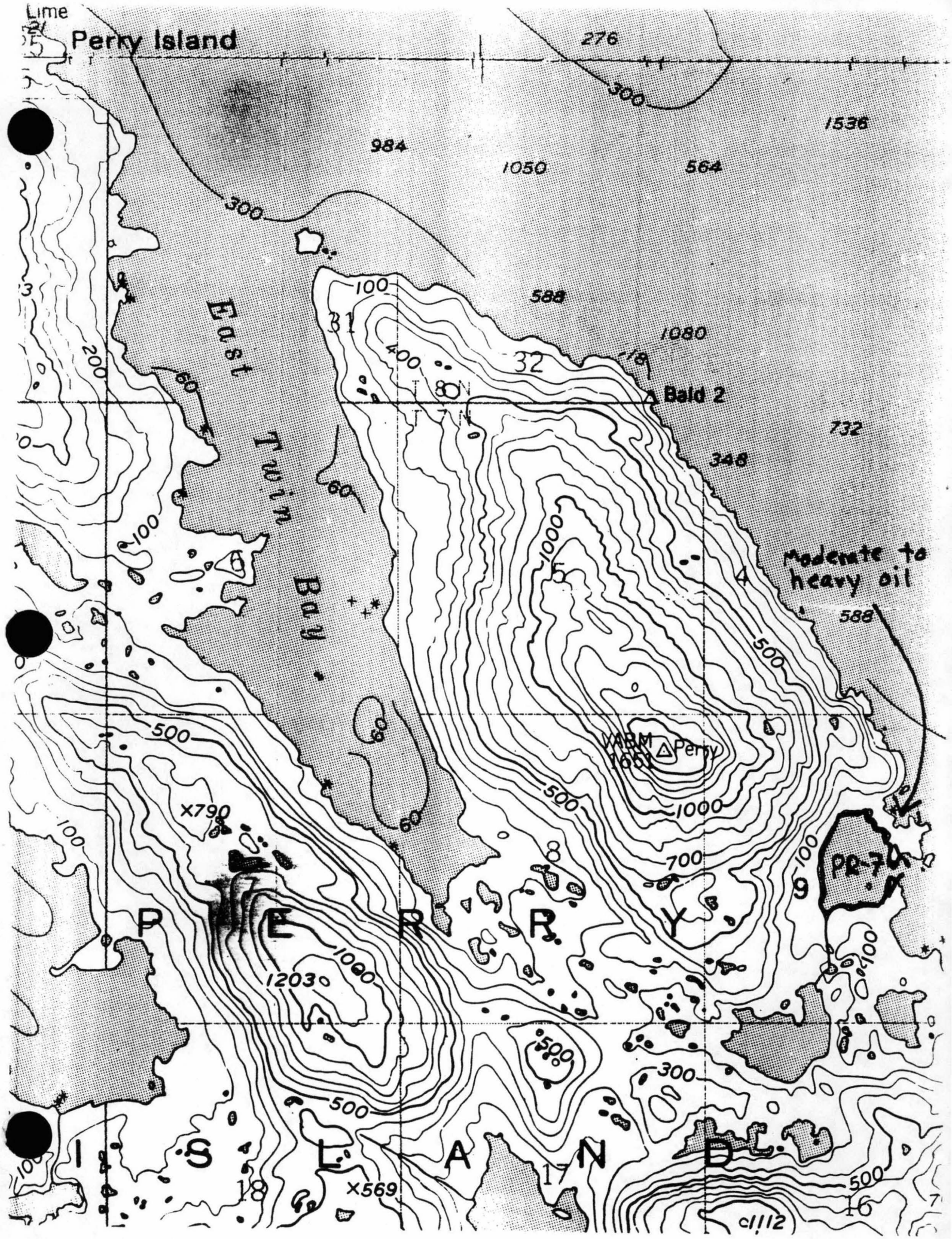
B/W Roll # _____ Frames _____

Observer(s) R. Reanier

Time survey started 1020 Time survey ended 1145

Cultural resource considerations/restraints:

During cleanup activities an Exxon archeologist with a copy of the field notes should cordon off a 5 m diameter area around the structure with police barricade tape, surveyor's flagging, or other suitable material. Security personnel will insure that workers are kept away from the cordoned area.


Lime
Perry Island
276
300
1536
984
1050
564
300
100
588
31
1080
32
400
Bald 2
732
348
East
Twin
Bay
200
60
100
1000
5
4
Moderate to heavy oil
588
500
6
60
500
WBM
1651
Perry
1000
700
X790
8
100
PR-74
9
P E R R Y
1000
1203
500
300
500
I S L A N D
18
X569
17
500
16
cl112

(version 4/29/89)

SHORELINE CLEANUP PROGRAM

DATE 5/24/89 SHORELINE SEGMENT PR-8

LOCATION: (see enclosed map) Perry Island - on the east side

This segment consists of rocky headlands and 3 small beaches located immediately north of a large lagoon.

ADEC NO. _____ SHORELINE ASSESSMENT DATE: 5/19/89

Recommended Cleanup Activity(ies): The 3 moderate to heavily oiled beaches in this segment should be cleaned with hot/moderate to high pressure water (up to 140 F). Clean or remove oiled logs and drift, harvest dead fucus. Evaluate the feasibility of cleaning the headlands with high pressure hot water.

REFER TO ATTACHED GUIDANCE ON FUCUS.

Priorities Considerations:

Class 2-3: heavy to moderate.
Class A: resources present.

Ecological Constraints (from site survey):

Clean when tide is above mussel beds located in lower intertidal zone or provide sufficient protection to prevent oiling.

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: May 25, 1989

EXXON: _____ Date: May 28/89

FOSC: _____ Date: 5/31/89

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

SHORELINE OIL EVALUATION

M. Bozzer
R. Reanier

Date: MAY 19 Time: 19:30 Observer: R. Reanier

Surveyed From: Foot/Boat/Helio/Plane Weather: Sun/Cloud/Rain/Snow/Fog

LOCATION

LOCATION Perry Island SEGMENT NUMBER PR 3 - Beach 1

LENGTH OF SHORELINE SEGMENT: _____ m

{ Each = 20m
Total Segment = 750 m

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

SHORELINE:

Shoreline Type: SPI/BEA/COV/HLD/STRT Slope: LANG/HANG/VER

rock headland
beach

Wave Exposure: High/Med/Low

Sediment: B 50 % / C 25 % / P 25 % / G ___ % / S ___ % / M ___ % / R ___ %

Drift Debris on Beach: Yes/No Supra/Upper/Mid/Lower Type Logs + Fucus

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: 20-25 m

Sporadic: Y/N % of Segment _____

Est. Oil Thickness where > 1cm: N/A cm Est. Oil Penetration: >10 cm

Pooled Oil: 0 % "Free" Oil: 0 % Coated: H ___ % / M 100 % / L ___ %

Fresh 0 % Mousse 10 % Tar Formation: 05 %

% of entire beach

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

Comments:

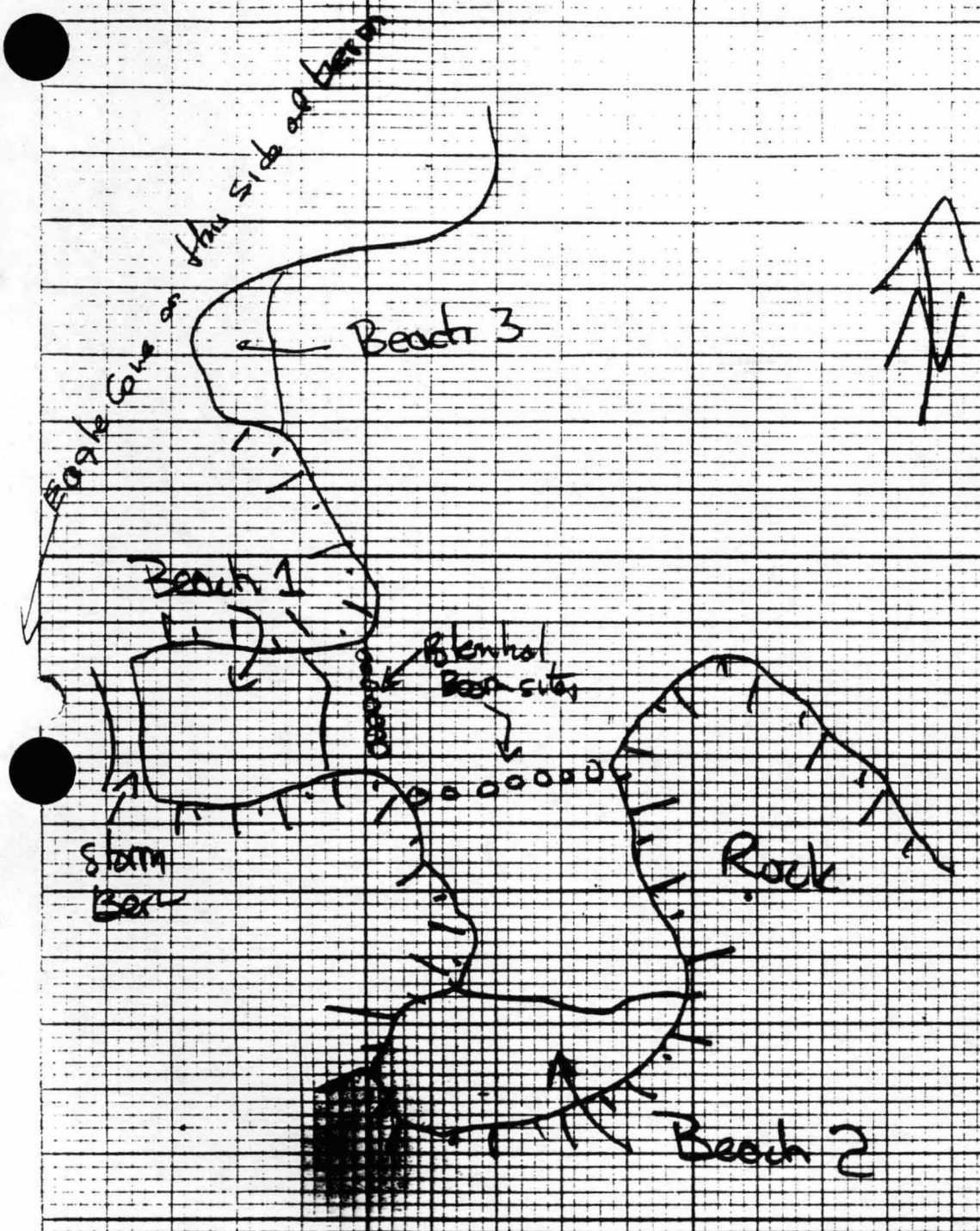
This narrow beach has a rock bluff on either end. Mid to high - ITZ - is at least moderately oiled. Clean with hot water when tide is above mussel level at L. ITZ. If work is conducted at lower water level - flood lower beach w/ cold water to protect mussel beds. Remove all oiled debris and harvest fucus.

(over)

Evaluate cleaning headlands with high pressure hoses. Use a boom tied between the headlands to collect the oil

May 1 1957 FRJ

m. miles



LOCATION: Perry Is. SITE: Beach #1 OBSERVER: M. Bozeman

LOCATION PREFIX: PR SEG. NO.: 08 LENGTH: 28 (M)

DATE: 5/19/89 TIME (HHMM): 1930 TIDE HT.: _____ (M)

OILED ZONE: Splash (High Medium) Low

SUBSTRATUM: Rocks (Boulder Cobble Gravel) Sand Mud

TOTAL segment = 750m

LIVE BIOTA

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

Little on cobbles

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

Numerous along boulders

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

most below mid-intertidal zone

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

OTHER OBSERVATIONS: Moderately oiled beach - Drift debris heavily oiled (including logs)

CLEANUP PRECAUTIONS: Clean when tide is above LITZ Hand harvest oiled algae & debris.

MAMMALS: Otter ___ Harbor Seals 1 Sea Lions ___ Whales ___

Other ___

BIRDS: ___

GENERAL OBSERVATIONS: Some Tar and Mousse at higher elevations of beach.

LOCATION: Perry Is. SITE: Beach 2 OBSERVER: M. Bozeman

LOCATION PREFIX: PR SEG. NO.: 08 LENGTH: 20 (M)

DATE: 5/19/89 TIME (HHMM): 1945 TIDE HT.: _____ (M)

OILED ZONE: Splash [High Medium] Low

SUBSTRATUM: Rocks (Boulder Cobble Gravel) Sand Mud

Total segment 750m

LIVE BIOTA

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

Not on Cobbles to speak of.

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

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: Organisms only present in LITZ
Heavily oiled Fucus along rock headland

CLEANUP PRECAUTIONS: Clean when water level is above LITZ

MAMMALS: Otters ____ Harbor Seals ____ Sea Lions ____ Whales ____

BIRDS: _____

GENERAL OBSERVATIONS: _____

(version of 4/29/89)

CULTURAL RESOURCE EVALUATION

Date 5-19-89 Location Perry Island Site

Location Prefix PR Segment # PR-8 Length 750 m

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 Moderately oiled / clear visibility

Width of beach zone surveyed 30 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 high angle

Fresh Water Sources NONE

Sea Exposure exposed to NE

Access/Safety easy access / no safety considerations

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

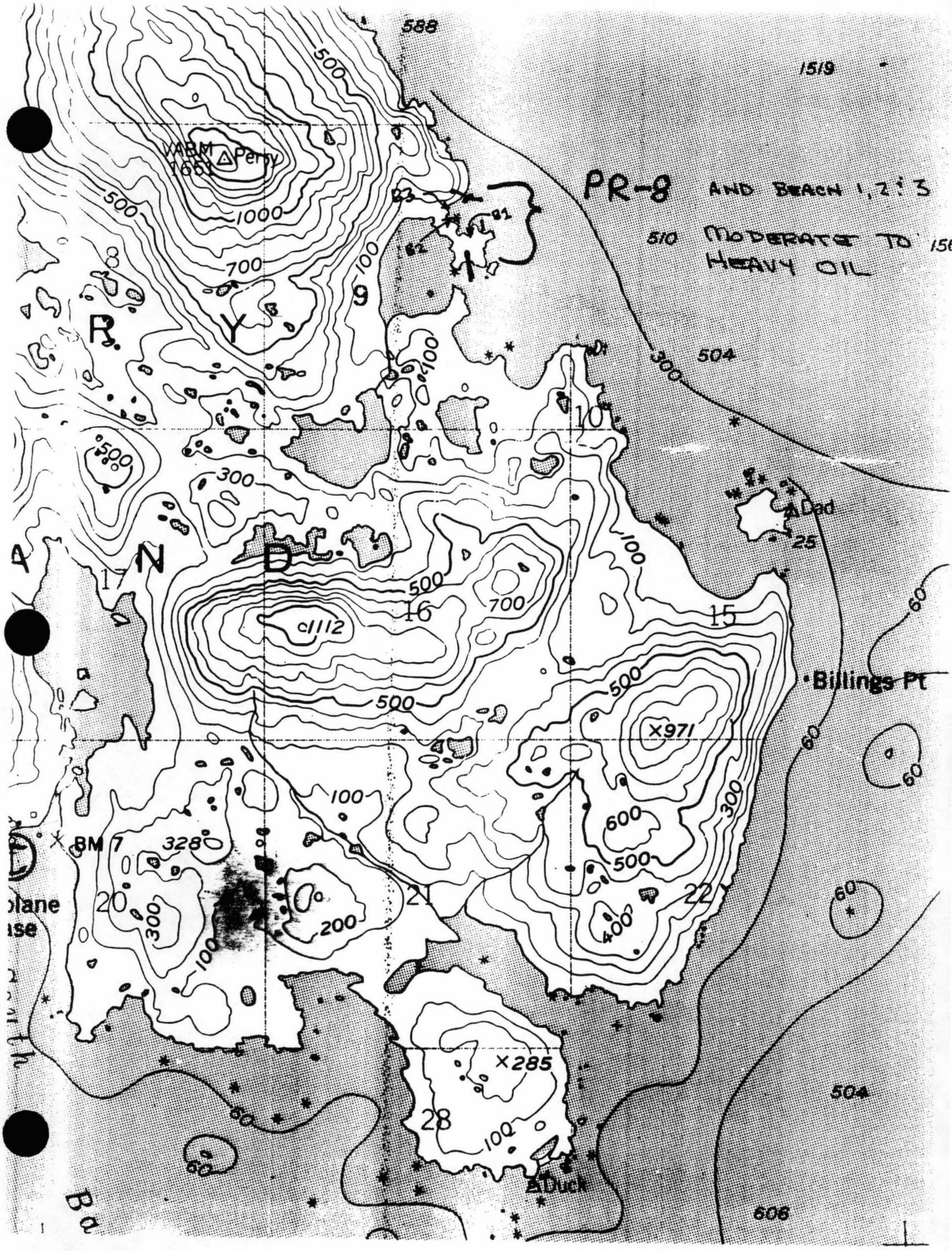
B/W Roll # Frames

Observer(s) R. Reanier

Time survey started 1930 Time survey ended 2000

Cultural resource considerations/restraints:

If heretofore undiscovered cultural materials are discovered during cleanup, contact Exxon Archeologist C. Mobley immediately


588
1519
PR-8 AND BEACH 1, 2 & 3
510 MODERATE TO 156
HEAVY OIL
VABM 1652
Perry
500
1000
700
100
300
504
Dod
25
Billings Pt
60
d112
16
15
17
X971
600
400
328
BM 7
20
21
22
200
X285
28
Duck
606
50

(version 4/29/89)

SHORELINE CLEANUP PROGRAM

DATE 5/24/89 SHORELINE SEGMENT PR-9

LOCATION: (see enclosed map) A Section of Rocky Coast located on the North west side of Perry Island, South of East Twin Bay

ADEC NO. _____ SHORELINE ASSESSMENT DATE: 5/20/89

Recommended Cleanup Activity(ies): A continuous, narrow, light coating of oil occurs on the southern end of this segment. All other areas are oil free. Given the small amount of oil and the high exposure to wave action, no cleanup activities are recommended.

Priorities Considerations:

None. See above.

Ecological Constraints (from site survey):

~~None.~~ ~~ACTIVE BALD~~ EAGLE NEST. REFER TO ATTACHED BALD EAGLE ADVISOR No cleaning recommended at this time.

NOTE PRESENCE OF ~~SEABIRD~~ COLONY WITH ± 1000 BIRDS. IF CLEANUP IS RECOMMENDED, NOTE AIRCRAFT RESTRICTIONS IN ATTACHED SHEET.

Archeological Constraints (from site survey):

No constraints necessary because no cleanup is recommended. If cleanup activities occur constraints should be reconsidered.

_____ Date: May 25, 1989

State Historic Preservation Officer *

EXXON: _____ Date: May 28/89

FOSC: _____ Date: 5/30/89

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

SHORELINE OIL EVALUATION

M. Bozzmar

Date: MAY 19 Time: 20:00 Observer: R. Reorier

Surveyed From: Foot/Boat/Helio/Plane Weather: Sun/Cloud/Rain/Snow/Fog

LOCATION

LOCATION Perry Island SEGMENT NUMBER PR - 9

LENGTH OF SHORELINE SEGMENT: 3100 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___% / C___% / P___% / G___% / S___% / M___% /R 100%

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: _____m

Sporadic: Y/N % of Segment 10 % on south end

Est. Oil Thickness where > 1cm: N/A cm Est. Oil Penetration: 0 cm

Pooled Oil: 0 % "Free" Oil: 0 % Coated: H 0 % /M 0 % /L <10 % Segment

Fresh 0 % Mousse 0 % Tar Formation: 0 %

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

Comments:

A near vertical section of rocky coast. A narrow ~30 cm high band of light oil occurs on the south end of the segment. No oil occurs on the remainder of the section. No clean-up is required

[illegible]GICAL EVALUATION

LOCATION: Perry Island SITE: Headland Rocks OBSERVER: M. Bozeman

LOCATION PREFIX: PR SEG. NO.: 09 LENGTH: 3100 (M)

DATE: 5/19/89 TIME (HHMM): 20:00 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

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

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: Clean to sporadic Lt. oil coating at High water line.

CLEANUP PRECAUTIONS: _____

MAMMALS: Otter [illegible] Harbor Seals ___ Sea Lions ___ Whales ___
Other _____

BIRDS: _____

GENERAL OBSERVATIONS: Vertical headland rocks with abundant biota.

(version of 4/29/89)

CULTURAL RESOURCE EVALUATION

Date 5-19-89 Location Perry Island Site

Location Prefix PR Segment # PR-9 Length 3100

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 NO OIL / excellent visibility
Light oil on South 1/3

Width of beach zone surveyed 0 - 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 wall

Fresh Water Sources NONE

Sea Exposure Exposed to NE

Access/Safety Access easy / Dangerous vertical wall

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

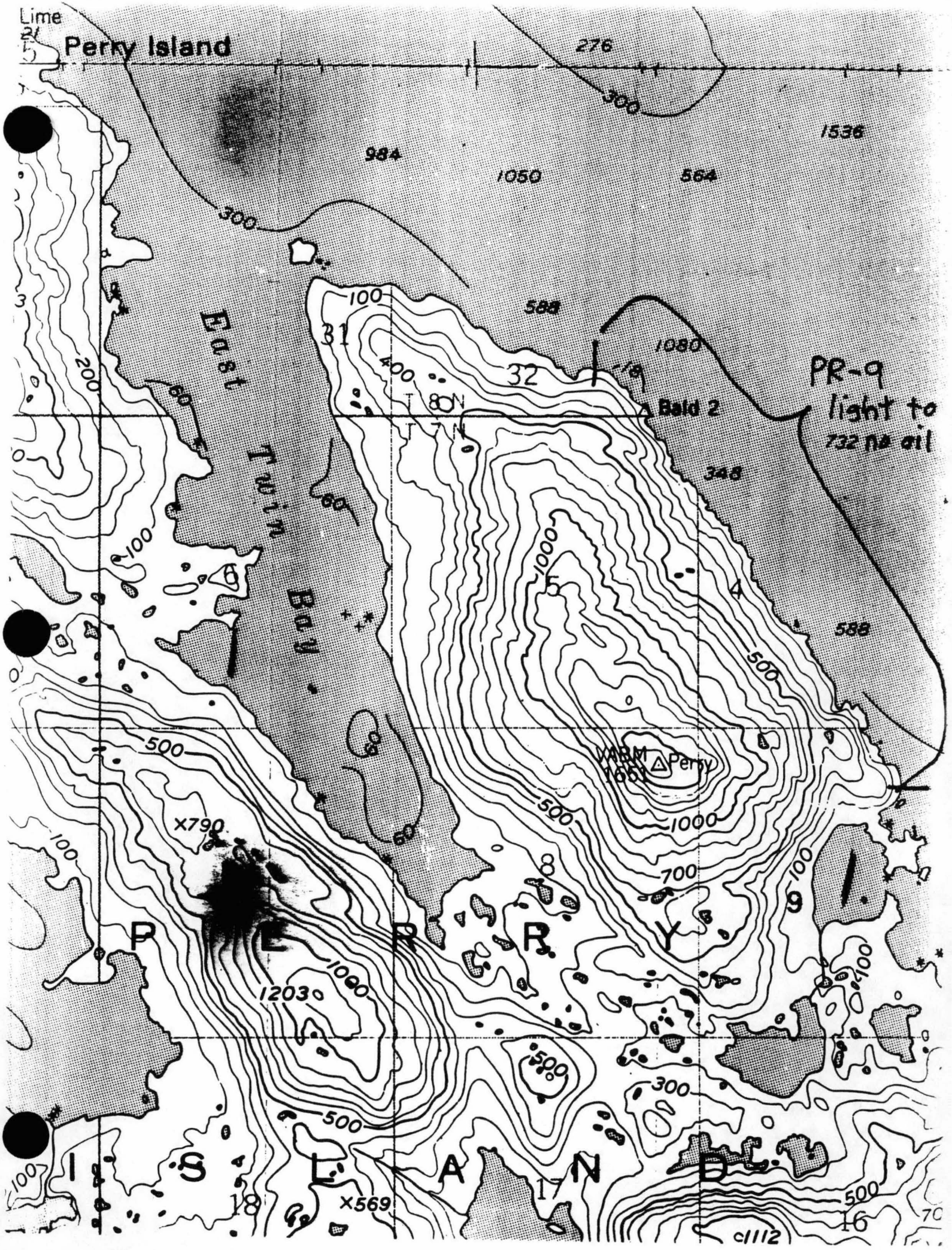
B/W Roll # Frames

Observer(s) R. Keanier

Time survey started 2000 Time survey ended 2145

Cultural resource considerations/restraints:

If heretofore undiscovered cultural materials are uncovered during cleanup, contact Exxon archeologist C. Mabley immediately.


Lime
Perry Island
276
300
1536
984
1050
564
300
100
588
31
1080
32
-19
PR-9
light to
732 ft oil
Bald 2
80N
T 7 N
348
East
Twin
Bay
200
60
100
1000
5
4
588
500
WABM
1661
Perry
500
1000
700
100
8
9
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P
L
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1203
1000
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D
18
X569
17
16
500
c1112
X790

(version 4/29/89)

SHORELINE CLEANUP PROGRAM

DATE 5/24/89 SHORELINE SEGMENT PR-10

LOCATION: (see enclosed map) Perry Island - North east side south of east Twin Bay

ADEC NO. _____ SHORELINE ASSESSMENT DATE: 5/19/89

Recommended Cleanup Activity(ies):

High pressure hot water (up to 140 F) may be used on areas where oil is heavily weathered. Sorbants may be used to enhance recovery of oil.

Priorities Considerations:

Class 4: light oil.
Class B: resources absent.

Ecological Constraints (from site survey):

Protect middle and lower intertidal zone by appropriate means to prevent oiling of these clean areas.

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 Hi[redacted] Preservation Officer * Date: May 25, 1989

EXXON: _____ Date: _____

FOSC: _____ Date: 5/24/89

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

SHORELINE OIL EVALUATION

Mike [illegible] e. D.S.
Morty Bozeman
Rick Reanier

Date: MAY 19 /89 Time: 21:00 Observer: Rick Reanier

Surveyed From: Foot/Boat/Helio/Plane Weather: Sun/Cloud/Rain/Snow/Fog

LOCATION

LOCATION PERRY ISLAND SEGMENT NUMBER PR 10

LENGTH OF SHORELINE 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 40 % / C 25 % / P 15 % / G ___ % / S ___ % / M ___ % / R 20 %

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

OIL

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

Area of Beach Impact: SU / SP / H / M / L — south end of beach

Continuous: Y/N % of Segment 50 Width of Band: 2 to 6 m

Sporadic: Y/N % of Segment 50 - north end of beach

Est. Oil Thickness where > 1cm: N/A cm Est. Oil Penetration: 0 cm

Pooled Oil: <1 % "Free" Oil: <1 % Coated: H 0 % / M 5 % / L 70 % — in crevasses

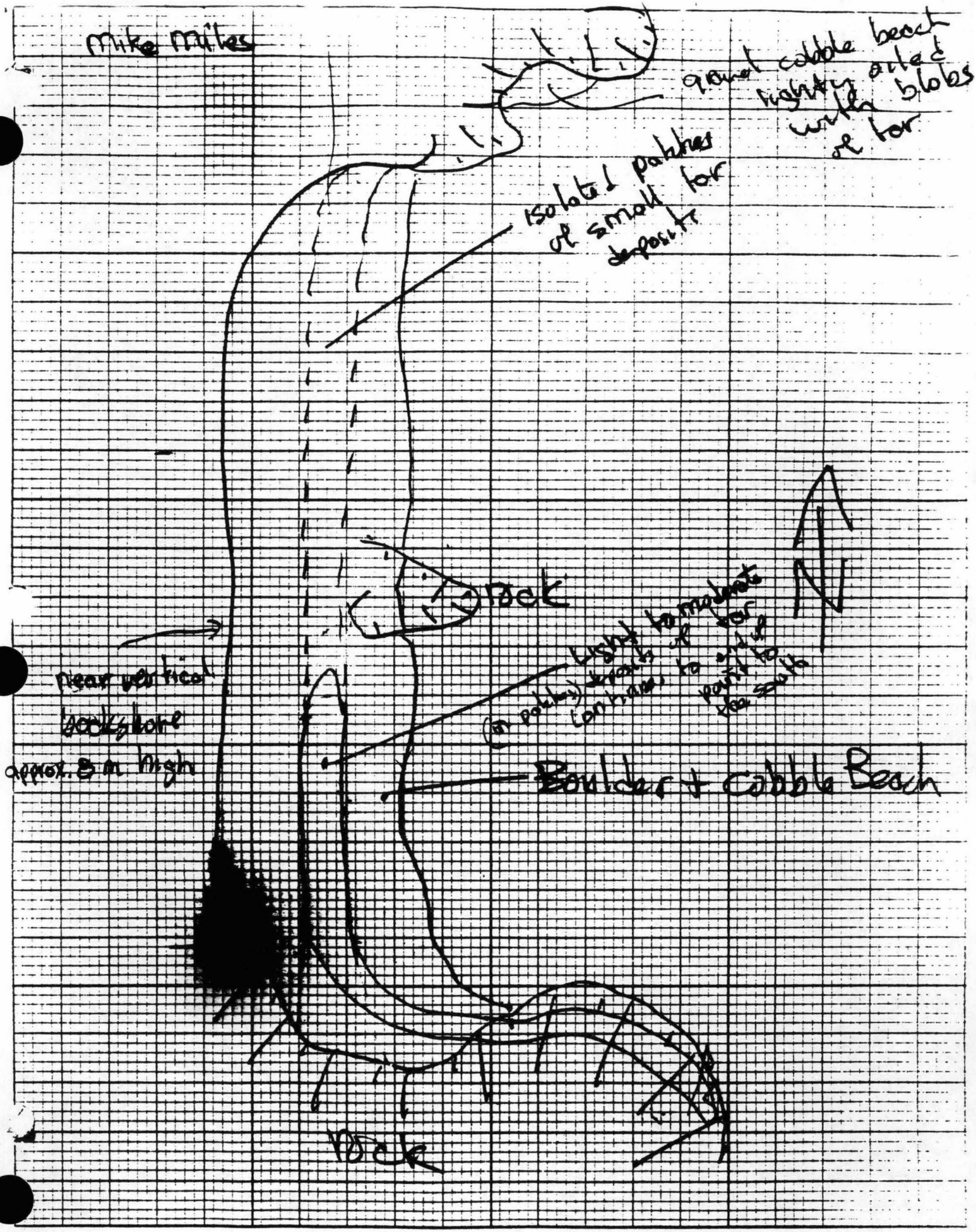
Fresh 0 % Mousse <1 % Tar Formation: 25 % — of oil offer

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

Comments:

Much of the oil on this boulder, cobble and pebble beach is in the form of tar. Pools of tar occur in depressions around rocks. White "Soap-like" powder occurs on beach in recent deposit of fucus + other debris (similar to that on South end of Island). This site would benefit from being cleaned - However the amount of oil/tar is small compared to other sites located further South. If this site was to be cleaned, high pressure hot water would likely be required in order to remove the oil and tar.

Mike Miles


gravel cobble beach
lightly oiled
with blobs
of tar
isolated patches
of small tar
deposits
Rock
N
near vertical
rockshore
approx. 8 m high
light to moderate
(in patches) deposits of tar
continues to end of
point to
sea south
Boulder + Cobble Beach
Rock

ECOLOGICAL EVALUATION

LOCATION: Perry Is. SITE: _____ OBSERVER: M Bozeman

LOCATION PREFIX: PR SEG. NO.: 10 LENGTH: 300 (M)

DATE: 5/20/89 TIME (HHMM): 2100 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

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

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
NOT Observed

OTHER OBSERVATIONS: Oil & Patchy Tar (Lt to moderate) in HITZ - well above most of biota.

CLEANUP PRECAUTIONS: Clean when Tides are above LITZ

MAMMALS: Otter [redacted] Harbor Seals 4 Sea Lions ___ Whales ___

BIRDS: _____

GENERAL OBSERVATIONS: _____

(version of 4/29/89)

CULTURAL RESOURCE EVALUATION

Date 5-19-89 Location Perry Island site

Location Prefix PR Segment # PR-10 Length 300

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 oil / excellent visibility

Width of beach zone surveyed 35 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 high angle cobble and boulder beach

Fresh Water Sources NONE

Sea Exposure exposed to the North

Access/Safety Easy access, no safety considerations

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

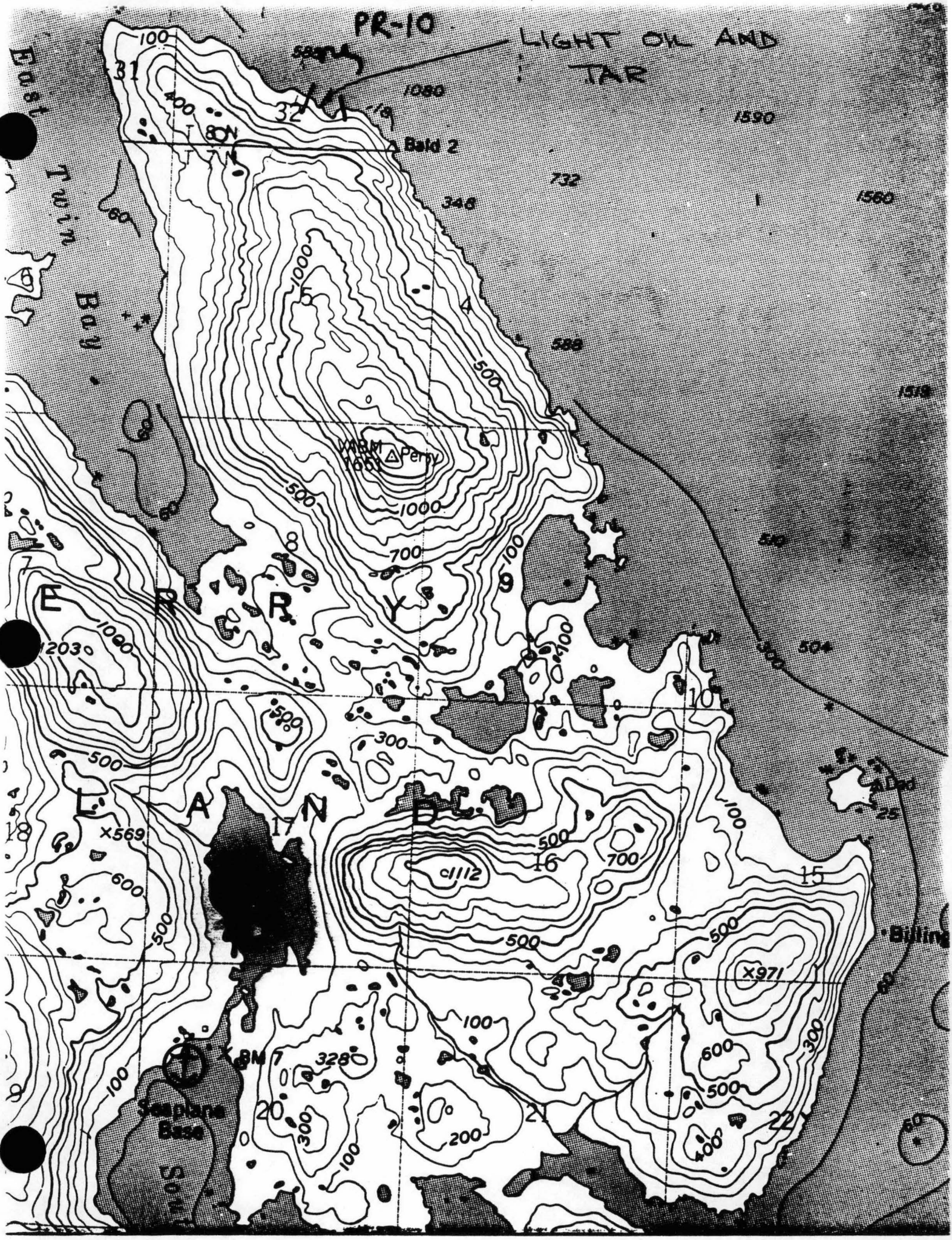
B/W Roll # Frames

Observer(s) Reanier

Time survey started 2100 Time survey ended 2130

Cultural resource considerations/restraints:

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


PR-10
LIGHT OIL AND TAR
Bald 2
Perry
Twin Bay
E R R Y
L A N D
Seaplane Base
Billing

(version 4/29/89)

SHORELINE CLEANUP PROGRAM

DATE 5/25/89 SHORELINE SEGMENT PR-11

LOCATION: (see enclosed map) Perry Island - Northeast end

(including small unnamed 2island)

ADEC NO. _____ SHORELINE ASSESSMENT DATE: 5/19 & 5/20/89

Recommended Cleanup Activity(ies): High pressure hot water (up to 140 degrees F) may be used to remove tar formations. Sorbants may be used to enhance recovery of oil. No cleanup is recommended for portions of P-11 with no oil present.

Priorities Considerations: Class 4 - light oil
Class B - resources absent

Ecological Constraints (from site survey):

Do not use high pressure on mussels or barnacles. Protect middle and lower intertidal zone by appropriate means to prevent oiling of these clean areas.

ACTIVE BALD EAGLE NESTS. REFER TO ATTACHED BALD EAGLE ADVISORY.

Archeological Constraints (from site survey):
If heretofore undiscovered cultural materials are uncovered during cleanup, contact Exxn's Archeological Field Director and take actions prescribed in the Operational Guidelines for Shoreline Cleanup dated 4/21/89 as amended.

[redacted] Date: May 25, 1989
State Historic Preservation Officer *

EXXON: [signature] Date: May 28 /89

FOSC: [signature] Date: 5/28/89

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

EXPEDITED OIL EVALUATION

MAY 20/89 07:45-08:00

Date: MAY 19/89 Time: 21:30-22:30 Observer: Rick Reanier

Mike Hayes
Marty Bozeman

Surveyed From: Foot/Boat/Helio/Plane Weather: Sun/Cloud/Rain/Snow/Fog

LOCATION

LOCATION PERRY ISLAND SEGMENT NUMBER PR 11

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 05 % / C___% / P___% / G___% / S___% / M___% / R 95 %

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 0 Width of Band: _____ m

Sporadic: Y/N % of Segment 5

Est. Oil Thickness where > 1cm: N/A cm Est. Oil Penetration: 0 cm

Pooled Oil: 0 % "Free" Oil: 0 % Coated: H___% / M___% / L 95 % of area oile.

Fresh 0 % Mousse 0 % Tar Formation: 5 %

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

Comments:

This [redacted] of coast consists of steep gradient rock. [redacted] sections [redacted] contain colluvial blocks or talus. Most of this segment is un-oiled and no clean-up is required. Light to moderate concentrations of tar occur in patches on the east side of the un-named island at the north end of this segment. Given the small quantity of oil at this site, cleanup is not recommended

LOCATION: Perry Is. SITE: Headland rocks OBSERVER: M. Bozoman

LOCATION PREFIX: PR SEG. NO.: 11 LENGTH: 1500 (M)

DATE: 5 / 20 / 19 89 TIME (HHMM): 07.45 21:30 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

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

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

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: _____

CLEANUP PRECAUTIONS: No clean up recommended

MAMMALS: Otters Harbor Seals 1 Sea Lions ___ Whales ___

BIRDS: _____

GENERAL OBSERVATIONS: Sporadic light oil at High water level.

(version of 4/29/89)

5-19-89 **CULTURAL RESOURCE EVALUATION**

Date 1 5-20-89 Location Perry Island Site

Location Prefix PR Segment # PR-11 Length 1500 m

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 no oil / excellent visibility

Width of beach zone surveyed 0 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 wall

Fresh Water Sources NONE

Sea Exposure exposed to North

Access/Safety Easy access / dangerous rock wall

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 _____

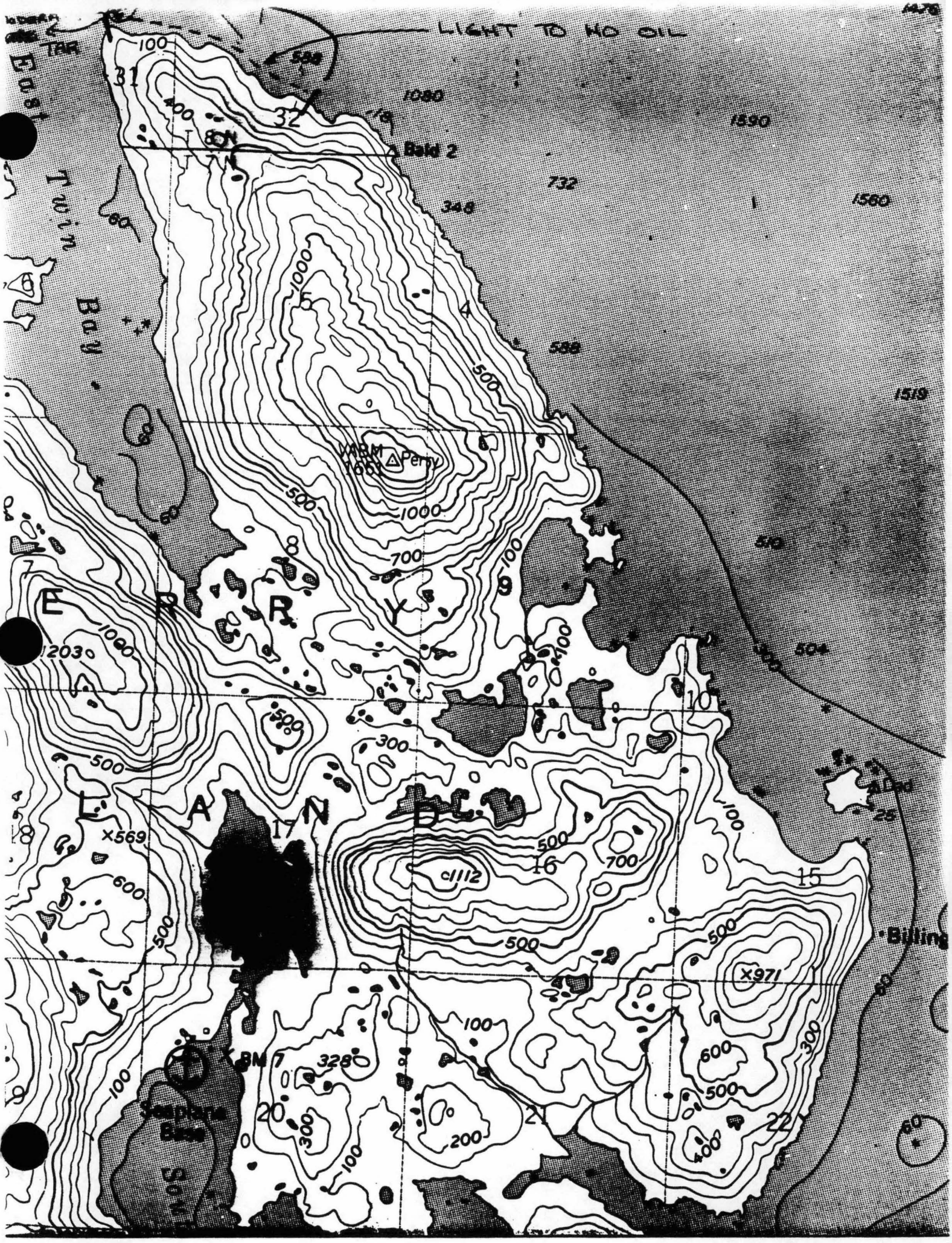
B/W [redacted] # _____ Frames _____

Observer(s) [redacted] Reanier

Time survey [redacted] 2130 5/19 Time survey ended 2230 5/19
0745 5/20 0745 5/20

Cultural resource considerations/restraints:

If ~~any~~ undiscovered cultural resources are uncovered during subsequent cleanup activities, contact Exxon archeologist C. Mobley immediately


LIGHT TO HO OIL
TAR
Twin Bay
Bald 2
USBM 1061
Perry
PERRY
LAND
X569
c1112
X971
USBM 7
3280
Seaplane Base
Billing
1080
1590
732
348
588
1519
504
1203
1560

SEG PR-6

INSPECTION # 1

DATE 6/16/89

TREATMENT MANUAL, 6/3/89

SEGMENT INSPECTION RECORD

Shoreline Treatment Process(es) Completed for this Segment

- [ ] Hot water wash
- [ ] Warm water wash
- [ ] Water deluge
- [ ] Mechanical
- [ ] Non-mechanical
- [x] Other No Cleaning

Exxon

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

Comments No Cleaning

ENVIRONMENTALLY SAFE

Signature [signature] Date: 6 16 89 Time:

Printed Name Kenneth M. Mathias

Existing Shoreline Condition As Visually Evaluated by ADEC and USCG

Surface Oil	Subsurface Oil
[ ] Heavily oiled	[ ] Heavily oiled
[ ] Medium oiled	[ ] Medium oiled
[ ] Lightly oiled	[ ] Lightly oiled
[■] 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 Recommend coming back in future to mobilize & reassess segment, too to heavy contaminated segments.

Signature [signature] Date: 6/17/89 Time: 2100 hrs

Printed Name Denny R. Timmons, Env. Engr, ADEC

FOSC rep

MOBILIZATION NOT REQUIRED @ THIS TIME

~~Demobilization approved/disapproved~~

Comments DUE TO VERY LIGHT AMOUNTS OF OILING, MOBILIZATION NOT REQUIRED @ THIS TIME.

Signature [signature] Date: 6/17/89 Time: 2050

Printed Name THOMAS D. HARRISON LT USCG

COPY: EXXON ADEC FOSC ISCC

FOSC 6/4/89

SEG PR-07 INSPECTION # ___ SEGMENT

DATE 8-12-89

INSPECTION RECORD

Shoreline Treatment Process(es) Completed for this Segment

- [x] Hot water wash
- [x] Warm water wash
- [x] Water deluge
- [ ] Mechanical ___
- [ ] Non-mechanical ___
- [ ] Other ___

Exxon

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

Comments Treatment of PR-07 is Complete. Ready For Demobilization and Deployment To A New Segment

Signature Harold A Russell Date: 8/12/89 Time: 14:20

Printed Name Harold A Russell

Existing Shoreline Condition As Visually Determined by USCG

Percent	Degree of Oiling
___	Heavy
___	Medium
2%	Light
5%	Very Light
97%	None
100 %	

Surface Oil

Subsurface Oil

- [x] Yes
- [ ] No

Comments Some surface oil in cobble & large rock areas

Reassessment

- [ ] Yes - necessary
- [x] No - not necessary unless re-oiled

ADEC rep Comments ADEC rep not available - approved prior visit

Signature Date: / / Time:

Printed Name

FOSC rep Demobilization approved/disapproved

Comments Approved to remove shore & sea begin after two more tide changes - vac removing

Signature Paul B. Gansle Date: 8/12/89 Time: 1430

Printed Name Paul B. Gansle, LT

Conf. with SCOT.

SEG PR-9

INSPECTION # 1

DATE 6/13/89

TREATMENT MANUAL, 6/3/89

SEGMENT INSPECTION RECORD

Shoreline Treatment Process(es) Completed for this Segment

- [ ] Hot water wash
- [ ] Warm water wash
- [ ] Water deluge
- [ ] Mechanical
- [ ] Non-mechanical
- [x] Other No Cleaning Required

Exxon

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

Comments No Cleaning Required

Signature Peter A Allen Date: 6/13/89 Time:

Printed Name Peter A. Allen

Existing Shoreline Condition As Visually Evaluated by ADEC and USCG

Surface Oil

- [ ] Heavily oiled
- [ ] Medium oiled
- [ ] Lightly oiled
- [x] Very lightly oiled
- [ ] No oil
- [ ] No surface oil and no subsurface oil

Subsurface Oil

- [ ] Heavily oiled
- [ ] Medium oiled
- [ ] Lightly oiled
- [x] Very lightly oiled
- [x] No oil

MARKED BY EXXON REP NOT CG OR ADEC - SUSPECT VERY LIGHTLY OILED IN FEW LOCATIONS

Reassessment

- [x] Yes - necessary
- [ ] No - not necessary unless re-oiled

ADEC rep

Comments ADEC REP STAN JUSTICE PRESENT ON SURVEY

Signature Date: / / Time:

Printed Name

FOSC rep

MOBILIZATION NOT REQUIRED @ THIS TIME ~~Demobilization approved/disapproved~~

Comments MOBILIZATION NOT REQUIRED @ THIS TIME DUE TO MINIMAL AMOUNTS OF OIL CURRENTLY PRESENT.

Signature Thomas D Harrison Date: 6/14/89 Time: 2040

Printed Name THOMAS D. HARRISON LT USCG

COPY: EXXON ADEC FOSC ISCC

FOSC 6/4/89

SEG PR-X 10

INSPECTION # 1

DATE 6/16/89

TREATMENT MANUAL, 6/3/89

SEGMENT INSPECTION RECORD

Shoreline Treatment Process(es) Completed for this Segment

- [ ] Hot water wash
- [ ] Warm water wash
- [ ] Water deluge
- [ ] Mechanical
- [ ] Non-mechanical
- [x] Other No Cleaning

Exxon

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

Comments No Cleaning

Signature KMMathias Date: 6 16 89 Time:

Printed Name Kenneth M. Mathias

Existing Shoreline Condition As Visually Evaluated by ADEC and USCG

Surface Oil	Subsurface Oil
[ ] Heavily oiled	[ ] Heavily oiled
[ ] Medium oiled	[ ] Medium oiled
[■] Lightly oiled (PRE)	[■] Lightly oiled (POST)
[ ] 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 no objections to leaving for a segment more heavily contaminated at this time.

Signature Denny R Thompson Date: 6/16/89 Time: 2010

Printed Name Denny R Thompson, Cont Engr, ADEC

FOSC rep

Demobilization approved ~~disapproved~~

Comments SEGMENT NEEDS TO HAVE THE BLUE POMPOMS & MISC CLEANUP EQUIPMENT THAT HAS WASHED ASHORE PICKED UP.

Signature Thomas D Harrison Date: 6/16/89 Time: 2010

Printed Name THOMAS D. HARRISON, CT, USCG

COPY: EXXON ADEC FOSC ISCC

FOSC 6/4/89

SEG PR-11

INSPECTION # 1

DATE 6/13/89

TRE MENT MANUAL, 6/3/89

SEGMENT INSPECTION RECORD

Shoreline Treatment Process(es) Completed for this Segment

- [ ] Hot water wash
- [ ] Warm water wash
- [ ] Water deluge
- [ ] Mechanical
- [ ] Non-mechanical
- [x] Other

Exxon

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

Comments No Cleaning Required

Signature Peter A Allen Date: 6 13/89 Time:

Printed Name Peter A. Allen

Existing Shoreline Condition As Visually Evaluated by ADEC and USCG

Surface Oil

- [ ] Heavily oiled
- [ ] Medium oiled
- [x] Lightly oiled (TDH)
- [ ] Very lightly oiled
- [ ] No oil

Subsurface Oil

- [ ] Heavily oiled
- [ ] Medium oiled
- [x] Lightly oiled (TDH)
- [ ] Very lightly oiled
- [x] No oil 3 - Blocks MARKED BY EXXON NOT CG OR ADEC. (TDH)

- [ ] No surface oil and no subsurface oil

Reassessment

- [x] Yes - necessary (TDH)
- [ ] No - not necessary unless re-oiled

ADEC rep

Comments ADEC REP STAN JUSTICE WAS PRESENT DURING INSPECTION.

Signature Date: / / Time:

Printed Name

FOSC rep

MOBILIZATION NOT REQUIRED @ THIS TIME

~~Demobilization approved/disapproved~~

Comments MOBILIZATION @ PRESENT TIME NOT REQUIRED DUE TO LIMITED AMOUNTS OF OIL.

Signature Thomas D Harrison Date: 6/14/89 Time: 2120

Printed Name THOMAS D. HARRISON LT USCG

COPY: EXXON ADEC FOSC ISCC

FOSC 6/4/89

(version 5/24/89)

SHORELINE PRE-CLEANUP ASSESSMENT BLOCK REPORT

Location (see enclosed map): PERRY ISLAND WEST BLOCK

Includes Shoreline Segments: PR-12, PR-13, PR-14, PR-15, PR-16

Submitted : A R McAdams Date: 5-29-89
(for Exxon)

ISCC ~~Approval~~ RECOMMENDATION: Jacquel Michel Date: 6-2-89

FOSC Approval: C E Robbins Date: 6-3-89

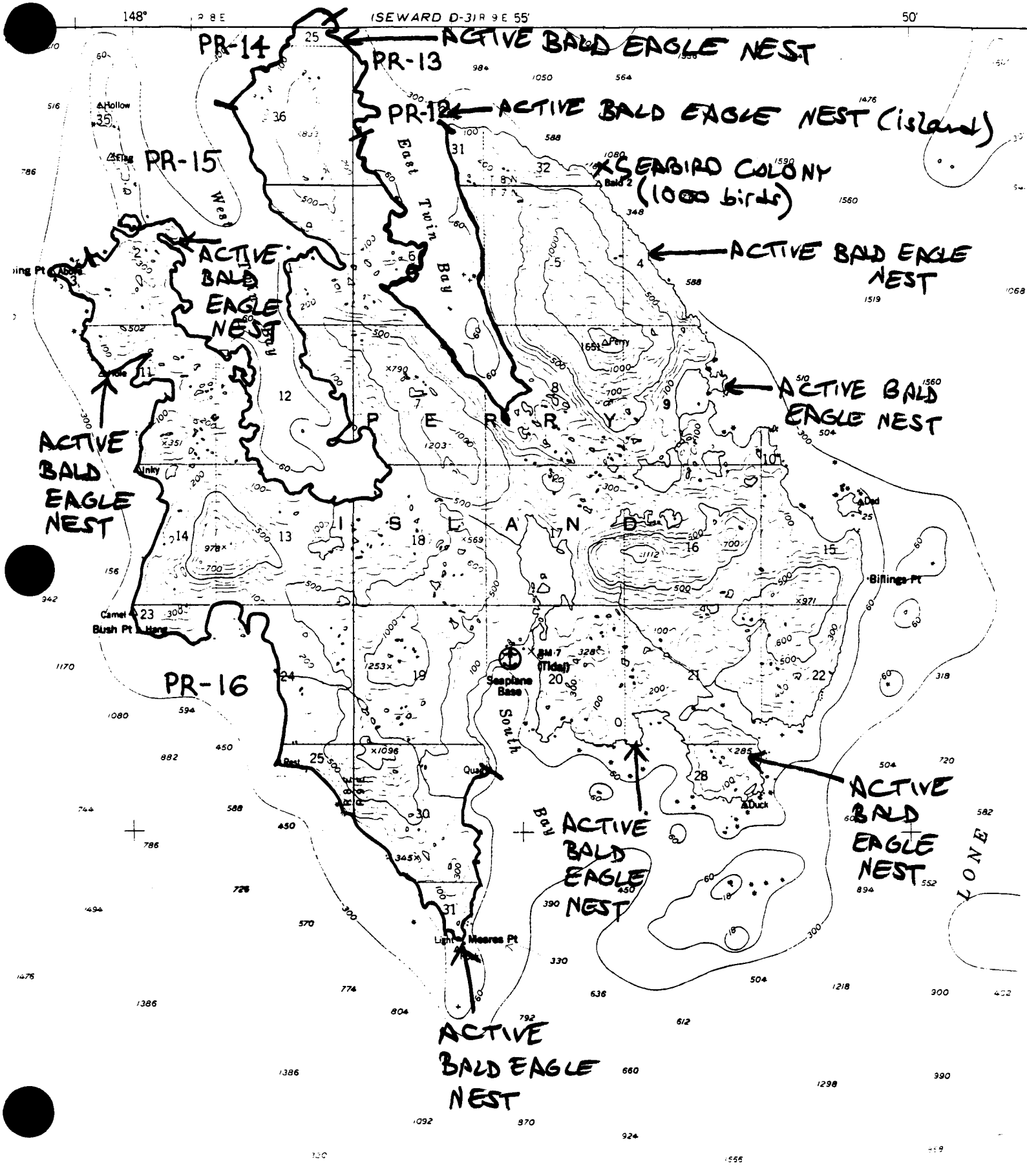
The cleanup procedures identified in the Shoreline Cleanup Program are recommended. Modifications to these systems can be made in the field. Exxon and other field personnel are encouraged to suggest innovations and productivity enhancements to the OSC's on-scene representative. The OSC's representative 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

PERRY ISLAND



(version 5/02/89)

SHORELINE CLEANUP PROGRAM

DATE 5/28/89 SHORELINE SEGMENT PR-12

LOCATION: (see enclosed map) East Twin Bay on Perry Island

ADEC NO. _____ SHORELINE ASSESSMENT DATE: 5/20/89

Recommended Cleanup Activity(ies):

- No cleanup activities are recommended AT THIS TIME, SUBJECT TO FOSC REVIEW, because, sporatic, small tar deposits and/or a very light coating of oil occur on the entrance to this bay and the segment has up to medium wave exposures. All other areas are oil free.

Priorities Considerations:

None.

Ecological Constraints (from site survey):

None.

Archeological Constraints (from site survey):
No constraints are necessary because no cleanup is recommended. If cleanup activities occur, constraints should be reconsidered.

Douglas R. Reger — Date: 5/29/89
State Historic Preservation Officer *

ISCC Jacquel Michel 6/3/89

EXXON: [illegible] — Date: June 3/89

FOSC: [illegible] — Date: 6-3-89

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

SHORELINE OIL EVALUATION

Date: May 20/3? Time: 08:00 → 09:00 Observer: _____

Surveyed From: Foot/Boat/Helio/Plane Weather: Sun/Cloud/Rain/Snow/Fog

LOCATION

LOCATION Perry Island SEGMENT NUMBER PR-12 East Twin Bay

LENGTH OF SHORELINE SEGMENT: 9600 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 45 % / C 5 % / P 5 % / G ___ % / S ___ % / M ___ % / R 45 %

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 _____ Width of Band: 5-10 cm high band on vertical rock 2-3 m wide band on high angle beach. m

Sporadic: Y/N % of Segment 10-20%

Est. Oil Thickness where > 1cm: N/A cm Est. Oil Penetration: 0 cm

Pooled Oil: 0 % "Free" Oil: 0 % Coated: H 0 % / M 0 % / L 50 % of area affect

Fresh 0 % Mousse 0 % Tar Formation: 50 %

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

Comments:

- Northern 800 m on east side of the bay has a 5-10 cm high "light band" like end of the H. ITZ. Infrequent blobs of tar occur on high ∠ [illegible] rear of Bay around the northern 500 m on the west side has no oil or tar
- The shoreline consists of rear vertical rock with a semi-continuous boulder foreshore. Stream at south end of bay has formed a pebble beach
- ☒ East side of bay - entrance area - sporadic tar blobs occur on a 500 m long section at H.W.L. The band is 2-3 m wide. No clean-up is warranted for this segment due to the small amount of oil which has been deposited

ECOLOGICAL EVALUATION

LOCATION: Perry Isl. SITE: East Twin Bay OBSERVER: M. Bozeman

LOCATION PREFIX: PR SEG. NO.: 12 LENGTH: 9600 (M)

DATE: 5/20/89 TIME (HHMM): 0800 TIDE HT.: _____ (M)

OILED ZONE: Splash [High] Medium Low

SUBSTRATUM: [Rocks] [Boulder Cobble] Gravel Sand Mud

Headlands Beaches

LIVE BIOTA

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

mostly

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

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: Extensive eelgrass in subtidal

CLEANUP PRECAUTIONS: No cleanup recommended.

MAMMALS: Otters ___ Harbor Seals 1 Sea Lions ___ Whales ___
Other _____

BIRDS: 2 Brants

GENERAL OBSERVATIONS: Patchy Tar & some light oiling

(version of 4/29/89)

CULTURAL RESOURCE EVALUATION

Date 5-20-89 Location Perry Island Site East Twin Bay

Location Prefix PR Segment # PR-12 Length 9600 m

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 Sporadic tar deposits near mouth of bay excellent visibility

Width of beach zone surveyed 5-30 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 High angle beach ranging from gravel to boulder.

Fresh Water Sources A ~~major~~ stream enters the head of the bay minor creeks flow over beaches occasionally along the beach.

Sea Exposure Entire segment is within sheltered East Twin Bay

Access/Safety Easy access / no safety considerations

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 _____

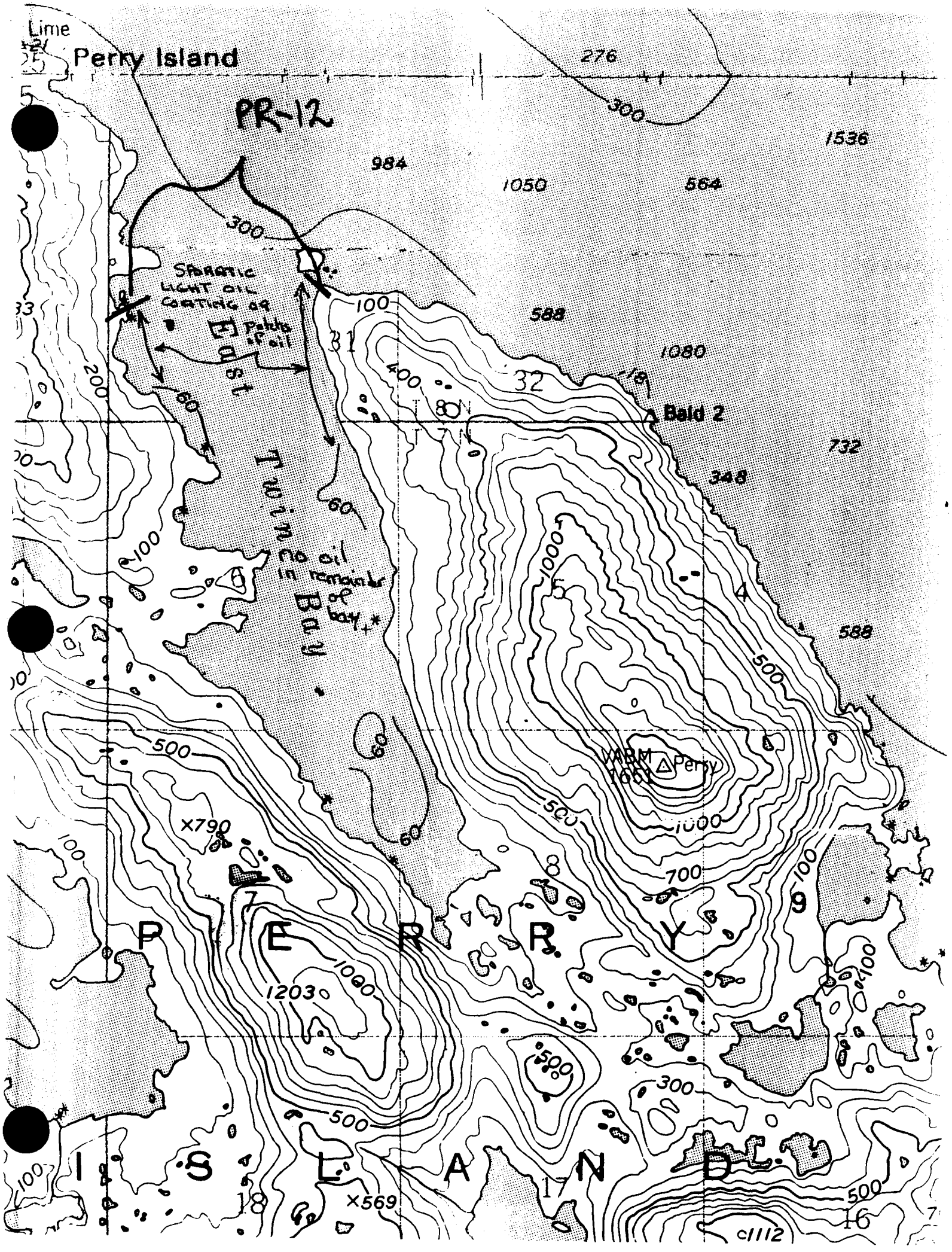
B/W Roll # _____ Frames _____

Observer(s) R. Reamer

Time survey started 0800 Time survey ended 0900

Cultural resource considerations/restraints:

If undiscovered cultural materials are uncovered during subsequent cleanup, contact Exxon archeologist C. Mobley immediately


Lime
Perry Island
PR-12
276
300
1536
984
1050
564
300
SPORADIC
LIGHT OIL
COATING ON
Patches of oil
588
100
31
1080
400
32
80
Bald 2
732
348
200
60
100
no oil
in remainder
of bay
1000
5
4
588
500
500
WBM
1661
Perry
500
1000
700
100
9
8
7
P E R R Y
1203
1000
500
300
500
I S L A N D
18
17
16
X790
X569
c1112

(version 5/02/89)

SHORELINE CLEANUP PROGRAM

DATE 5/28/89 SHORELINE SEGMENT PR-13

LOCATION: (see enclosed map) Perry Island - West shore of East Twin Bay in the area immediately south of Point Perry

ADEC NO. _____ SHORELINE ASSESSMENT DATE: 5/20/89

Recommended Cleanup Activity(ies): Beach 1 in this segment should be cleaned with high pressure/hot water. However, given the comparatively small quantity of oil which has been deposited, the cleanup priority should be low. Beach 2 and the headland portions of this segment do not have sufficient oil to warrant being cleaned. Heavily oiled seaweed deposits on beach 3 should be removed manually. The north and south portions of beach 3 should be cleaned with hot water/mod to high pressure cleaning if wave action does not remove the moderate oil deposits which currently occur in this area. The on-site command officer should inspect these areas when the oiled weed is removed to determine if sufficient oil remains to justify a cleanup operation, AT THIS TIME, SUBJECT TO FOSC REVIEW.

Priorities Considerations:
- 3A

Ecological Constraints (from site survey): Cleanup of beach #1 should occur when the tides are above middle intertidal zone to protect biota on lower portion of beach similarly, this approach should be followed in cleanup activities are later recommended on beach #3.

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.

Douglas R. Reger — Date: 5/29/89
State Historic Preservation Officer *

ISCC Jacqueline Michael — 6/3/89

EXXON: John Dagley — Date: JUNE 3/89

FOSC: [illegible] — Date: 6-3-89

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

SHORELINE OIL EVALUATION

MIKE [illegible]
MARTY [illegible]
RICK [illegible]

Date: MAY 20 / Time: 09:15 Observer: _____

Surveyed From: (Foot/Boat)/Helio/Plane Weather: (Sun)/Cloud/Rain/Snow/Fog

LOCATION

LOCATION PERRY ISLAND SEGMENT NUMBER PR 13-Beach

LENGTH OF SHORELINE SEGMENT: _____ m

Beach 1 = 100 m
Total Segment = 2300

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 – TO THE EAST

Sediment: B 60 % / C 30 % / P 10 % / G ___ % / S ___ % / M ___ % / R 10 %

Drift Debris on Beach: (Yes)/No Supra/(Upper)/Mid/Lower Type logs and sea weed

OIL

mostly light some moderate

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: 4 to 6 m

Sporadic: Y/(N) % of Segment 10

Est. Oil Thickness where > 1cm: N/A cm Est. Oil Penetration: 0 cm

Pooled Oil: 0 % "Free" Oil: 0 % Coated: H 0 % / M 10 % / L 70 %

Fresh 0 % Mousse 0 % Tar Formation: 20 %

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

Comments:

This beach would benefit from being cleaned. However given the relatively small amount of oil on the beach, it is not a high priority site. Cleaning should be done at mid water to protect downslope biota

Headland between Beach 1 + Beach 2 has a light oil staining for 1st 75 m north of beach 1.

SHORELINE OIL EVALUATION

Mike Miles
Marty Bozzman
Rick Reanier

Date: May 20 / 89 Time: 09:40 Observer: Rick Reanier

Surveyed From: Foot/Boat/Helio/Plane Weather: Sun/Cloud/Rain/Snow/Fog

LOCATION

LOCATION Perry Island SEGMENT NUMBER PR-13-Beach 2

LENGTH OF SHORELINE SEGMENT: _____ m

Beach 2 = 30 m
Total Segment = 230

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 30 % / P ___ % / G ___ % / S ___ % / M ___ % / R 40 %

Drift Debris on Beach: Yes/No Supra/Upper/Mid/Lower Type Log + weed

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: 2-4 m

Sporadic: Y/N % of Segment _____

Est. Oil Thickness where > 1cm: N/A cm Est. Oil Penetration: <5 cm

Pooled Oil: 0 % "Free" Oil: 0 % Coated: H 0 % / M 0 % / L 75 %

Fresh 0 % Mousse 0 % Tar Formation: 25 %

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

Comments:

Insufficient oil to warrant cleaning. Site is exposed to the South and wave action is expected to remove oil ~~overtime~~.

Head land between Beach 2 and 3 contains a sporadic slight coating of oil. no clean-up is warranted

white powder coming in with the tide

SHORELINE OIL EVALUATION

Mike M[illegible] Marty Fo[illegible]

Date: MAY 20 / Time: 10:00 hrs Observer: Rick Pearlier

Surveyed From: Foot/Boat/Helio/Plane Weather: Sun/Cloud/Rain/Snow/Fog

LOCATION

LOCATION Perry Island SEGMENT NUMBER FP 13-Beach 3

LENGTH OF SHORELINE SEGMENT: _____ m Beach 3 = 50 m; Total Segment = 2300 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 40 % / P 40 % / G ___ % / S ___ % / M ___ % / R ___ %

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

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 - 4 m

Sporadic: Y/N % of Segment _____

Est. Oil Thickness where > 1cm: N/A cm Est. Oil Penetration: 5 cm

Pooled Oil: 0 % "Free" Oil: 0 % Coated: H 0 % / M 5 % / L 90 %

Fresh _____ % Mousse _____ % Tar Formation: < 5 %

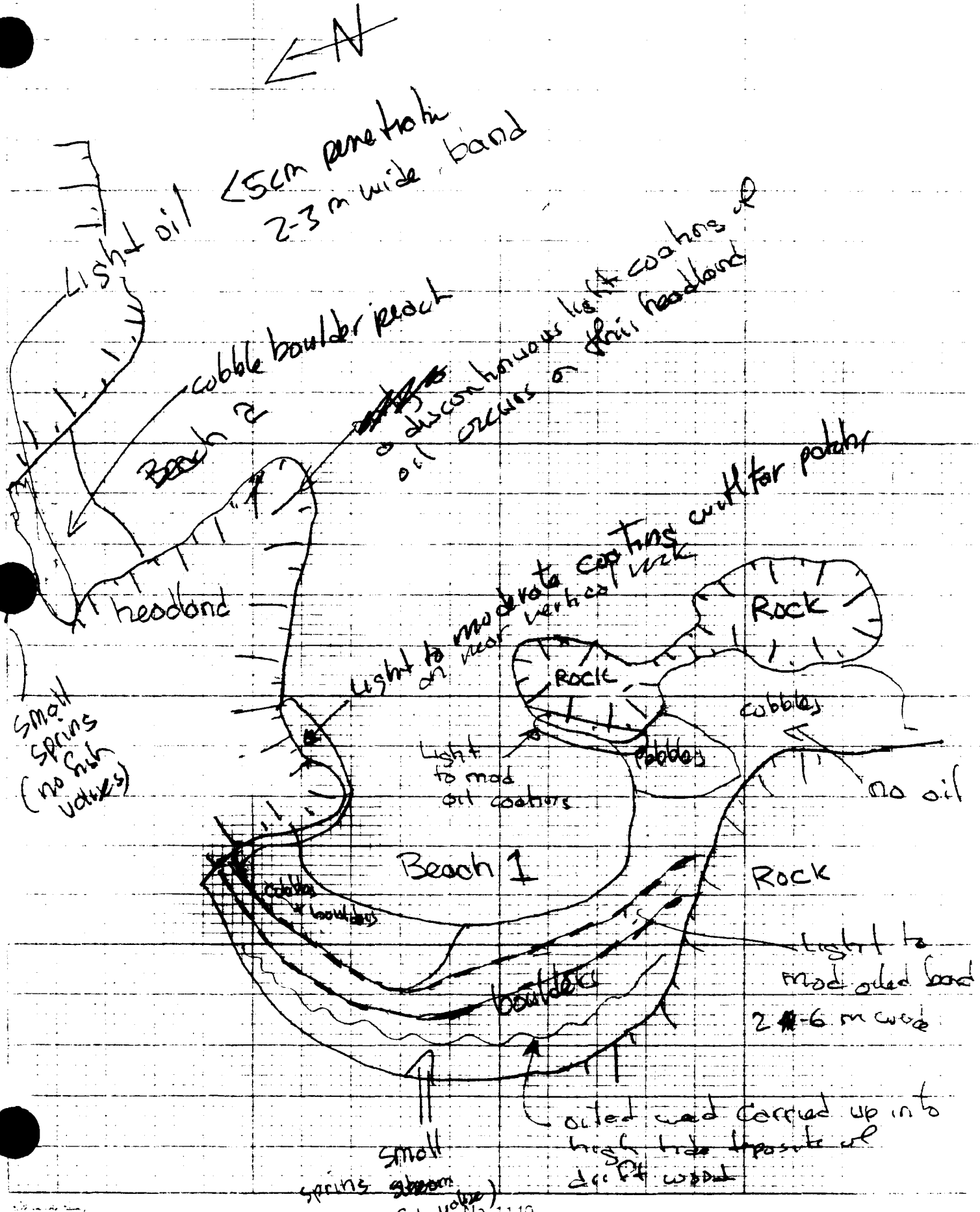
Drift Debris Oiled ? Yes/No Supra/Upper/Mid/Lower Amount: H/M/L/

Comments: white powder coming in with the tide

This small pocket beach is located between 2 rocky headlands. The pebbles on the upper ITZ were originally moderately oiled. Wave action has substantially cleaned the beach except for small areas on the west end. ~~at the beach~~. ~~The~~ Weed deposits (primarily fucus) on the upper part of the beach are heavily oiled and warrant being removed. The rocky headlands adjacent to the beach have a ~~few~~ light to moderate oil coverage but they are expected to be cleaned by wave action. No other clean-up [other than removing the oiled weed] is therefore recommended for this site. (over)

MAY 20/89
mike miles

PR-13



No. 1140

ECOLOGICAL EVALUATION

LOCATION: Perry Is. SITE: Beach #1 OBSERVER: M. Bozeman

LOCATION PREFIX: PR SEG. NO.: 13 LENGTH: 100 (M)

DATE: 5/20/89 TIME (HHMM): 0915 TIDE HT.: _____ (M)

OILED ZONE: Splash High Medium Low

SUBSTRATUM: Rocks Boulder Cobble Gravel Sand Mud

TOTAL SEGMENT = 2300m

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

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: lower to mid-ITZ shows most abundance of organisms (boulder substrate)

CLEANUP PRECAUTIONS: Cleanup should be conducted during mid tide levels to protect Biota in ITZ

MAMMALS: Otters ____ Harbor Seals ____ Sea Lions ____ Whales ____
Other _____

BIRDS: _____

GENERAL OBSERVATIONS: East facing beach with lt/med oil high in ITZ and above on logs & grass

ECOLOGICAL EVALUATION

LOCATION: Perry Is SITE: Beach #2 OBSERVER: M Bozeman

LOCATION PREFIX: PR SEG. NO.: 13 LENGTH: 80 (M)

DATE: 5/20/89 TIME (HHMM): 0940 TIDE HT.: _____ (M)

OILED ZONE: Splash **High** Medium Low

SUBSTRATUM: Rocks Boulder Cobble Gravel Sand Mud

TOTAL SQUARE = 2300 m

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

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
NOT OBSERVED

OTHER OBSERVATIONS: Exposed beach - wave action is expected to clean the light degree of oil present.

CLEANUP PRECAUTIONS: N/A NOT recommended for cleanup. - Too little oil present

MAMMALS: Otters 1 Harbor Seals ___ Sea Lions ___ Whales ___
Other _____

BIRDS: _____

GENERAL OBSERVATIONS: Small stream enters @ Head of beach - No fisheries value.

ECOLOGICAL EVALUATION

LOCATION: Perry Is SITE: Beach 3 OBSERVER: M. Bozeman

LOCATION PREFIX: PR SEG. NO.: 13 LENGTH: 50 (M)

DATE: 5/20/89 TIME (HHMM): _____ TIDE HT.: _____ (M)

OILED ZONE: Splash **High** **Medium** Low

Total Segment length = 2200

SUBSTRATUM: Rocks **Boulder** (some) **Cobble** (most) **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

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: Remainder of segment (mostly rocky, wetlands) has insufficient oil to warrant [illegible]

CLEANUP PRECAUTIONS: Currently, no cleanup recommended except for hand removal of oiled debris - Late examination shows need for oil removal along beach [illegible] it should be conducted when tides are high enough to protect biota [illegible] LIVE

MAMMALS: Otters ____ Harbor Seals ____ Sea Lions ____ Whales ____
Other _____

BIRDS: _____

GENERAL OBSERVATIONS: Small pocket beach with strand line of oiled algae & debris. Lt to moderate [illegible] bounds sides of beach - Moderate energy beach that is likely to be cleaned by wave action

(version of 4/29/89)

CULTURAL RESOURCE EVALUATION

Date 5-20-89 Location Perry Island Site _____

Location Prefix PR Segment # PR-13 Length 2300 m

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 moderate to light oil / excellent visibility

Width of beach zone surveyed 25 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 High angle boulder to cobble beaches, rocky headland

Fresh Water Sources None

Sea Exposure Exposed to East

Access/Safety Easy access / no safety considerations

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 _____

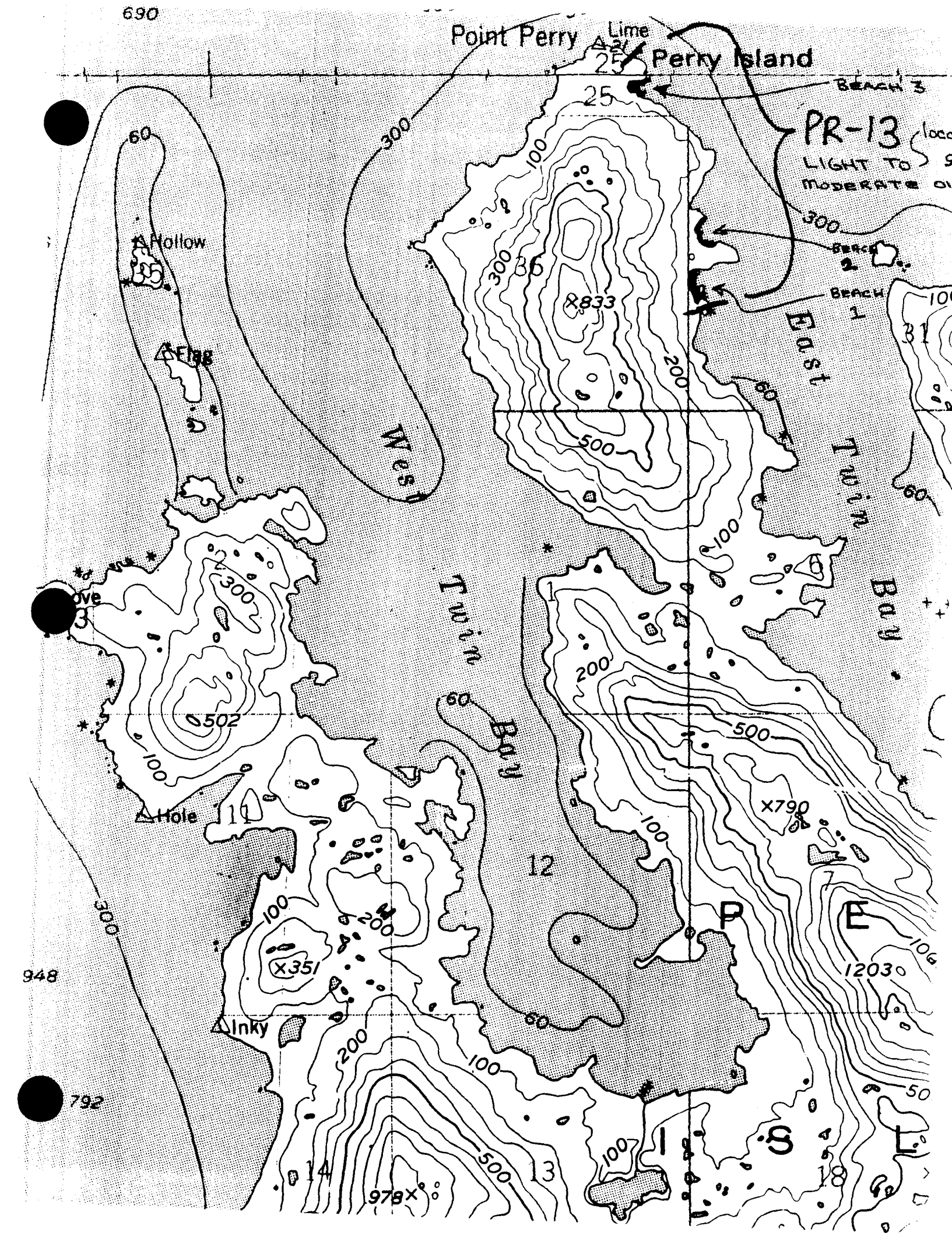
B/W Roll # _____ Frames _____

Observer(s) R Reanier

Time survey started 0900 Time survey ended 0945

Cultural resource considerations/restraints:

If undiscovered cultural materials are uncovered during cleanup, contact C. Mobley, Exxon archeologist, immediately.


Point Perry
Lime
Perry Island
BEACH 3
PR-13
LIGHT TO
MODERATE
BEACH 2
BEACH 1
Hollow
Flag
West
East
Twin
Bay
Twin
Bay
Hole
Inky
PERIL
833
502
790
351
1203
978
948
792
690

(version 4/29/89)

SHORELINE CLEANUP PROGRAM

DATE 5/28/89 SHORELINE SEGMENT PR-14

LOCATION: (see enclosed map) Perry Island-The northern portion of the westside of Cape Perry

ADEC NO. _____ SHORELINE ASSESSMENT DATE: 5/20/89

Recommended Cleanup Activity(ies):

- No cleanup required. No oil was found on this segment.

Priorities Considerations:
- None.

Ecological Constraints (from site survey):
- None.

Archeological Constraints (from site survey):
No constraints are necessary because no cleanup is recommended. If cleanup activities occur, constraints should be reconsidered. AND A CAC REPRESENTATIVE MUST BE PRESENT DURING CLEANUP.

Douglas L. Reger — Date: 5/29/89
State Historic Preservation Officer *

ISCC Jacqueline Michel 6/3/89

EXXON: John Dysley — Date: June 3/89

FOSC: L S Robbins — Date: _____

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

(version 4/29/89)

SHORELINE CLEANUP PROGRAM

DATE 5/28/89 SHORELINE SEGMENT PR-15

LOCATION: (see enclosed map) Perry Island-West Twin Bay, Hollow and Flag Island and Coast west to Above Point

ADEC NO. _____ SHORELINE ASSESSMENT DATE: 5/20/89

Recommended Cleanup Activity(ies):

- Cleanup activities are not required because no oil was found in this segment.

Priorities Considerations:
- None.

Ecological Constraints (from site survey):
- None.

Archeological Constraints (from site survey):
No constraints are necessary because no cleanup is recommended. If cleanup activity occurs, constraints should be reconsidered.

Douglas R. Reger
State Historic Preservation Officer * Date: 5/29/89

ISCC Jacqueline Michel 06/03/89

EXXON: John Dryden Date: June 3/89

FOSC: J. E. Robbins Date: _____

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

SHORELINE OIL EVALUATION

MIKE MILES
MARTY ROZEMA
RICK [illegible]

Date: MAY 20 '89 Time: 10:30 hrs Observer: _____

Surveyed From: (Foot/Boat)/Helio/Plane Weather: (Sun)/Cloud/Rain/Snow/Fog

LOCATION

LOCATION PERRY ISLAND SEGMENT NUMBER PR 14

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 5 % / C 5 % / 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 0 Width of Band: 0 m

Sporadic: Y/(N) % of Segment 0

Est. Oil Thickness where > 1cm: N/A cm Est. Oil Penetration: 0 cm

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

Fresh 0 % Mousse 0 % Tar Formation: 0 %

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

Comments:

This rocky section of coast (which contains a number of very small cobble/boulder pocket beaches) ~~is exposed to the~~ has a NW exposure. No oil was found along this segment.

ECOLOGICAL EVALUATION

LOCATION: Polly Jo. SITE: Point Perry OBSERVER: M. Borchman

LOCATION PREFIX: PR SEG. NO.: 14 LENGTH: 2000 (M)

DATE: 5/20/89 TIME (HHMM): 10:30 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

Varies with location

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

Varies with location

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

Varies with location

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: No oil — No cleanup needed noted

CLEANUP PRECAUTIONS: N/A

MAMMALS: Otters 1 Harbor Seals ___ Sea Lions ___ Whales ___
Other _____

BIRDS: _____

GENERAL OBSERVATIONS: _____

(version of 4/29/89)

CULTURAL RESOURCE EVALUATION

Date 5-20-89 Location Perry Island Site

Location Prefix PR Segment # PR-14 Length 2000 m

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 NO OIL / EXCELLENT VISIBILITY

Width of beach zone surveyed 0-10 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 Rocky coastline with local small cobble beaches

Fresh Water Sources NONE

Sea Exposure Exposed to NORTHWEST

Access/Safety difficult access / potential wave hazards

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

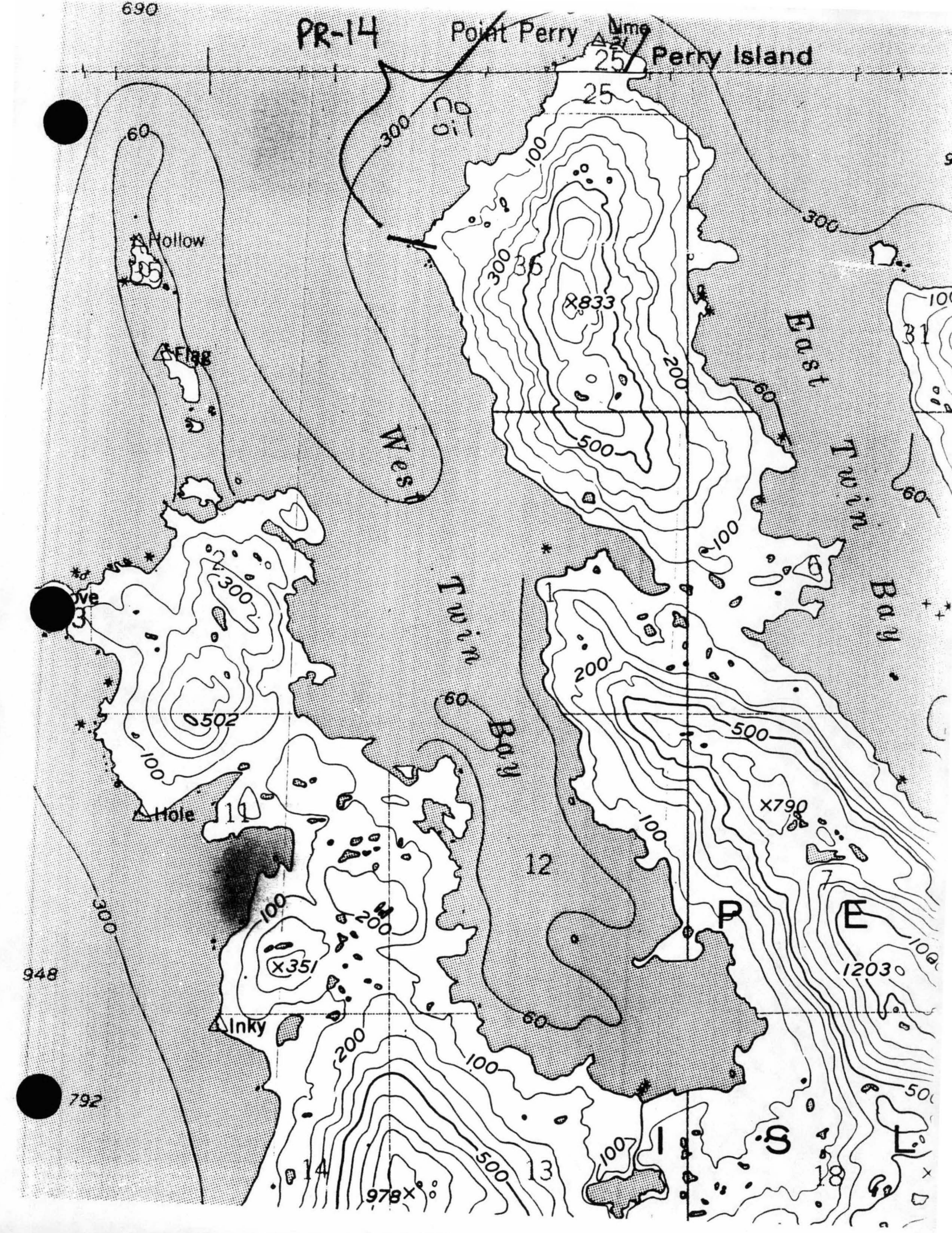
B/W Roll # Frames

Observer(s) R. Reanier

Time survey started 1030 Time survey ended 1045

Cultural resource considerations/restraints:

If ~~cult~~ undiscovered cultural materials are discovered during any subsequent cleanup, contact Exxon archeologist C. Mobley immediately.


PR-14
Point Perry
Perry Island
no oil
West
Twin
Bay
East
Twin
Bay
Hollow
Flag
Hole
Inky
P E I S L
833
502
790
351
1203
978
948
792
690
25
36
31
1
6
2
11
12
7
14
13
18

(version 4/29/89)

SHORELINE CLEANUP PROGRAM

DATE 5/28/89 SHORELINE SEGMENT PR-15

LOCATION: (see enclosed map) Perry Island-West Twin Bay, Hollow and Flag Island and Coast west to Above Point

ADEC NO. _____ SHORELINE ASSESSMENT DATE: 5/20/89

Recommended Cleanup Activity(ies):

- Cleanup activities are not required because no oil was found in this segment.

Priorities Considerations:
- None.

Ecological Constraints (from site survey):
- None.

Archeological Constraints (from site survey):
No constraints are necessary because no cleanup is recommended. If cleanup activity occurs, constraints should be reconsidered.

Douglas R. Reger
State Historic Preservation Officer * Date: 5/29/89

ISCC Jacqueline Michel 06/03/89

EXXON: John Dryden Date: June 3/89

FOSC: J. L. Robbins Date: _____

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

SHORELINE OIL EVALUATION

MIKE [illegible]
MARTY [illegible]
RICK [illegible]

Date: MAY 20/89 Time: 10:30 - 12:30 Observer: _____

Surveyed From: (Foot/Boat)/Helio/Plane Weather: (Sun)/Cloud/Rain/Snow/Fog

LOCATION

LOCATION PERRY ISLAND SEGMENT NUMBER PR-15

LENGTH OF SHORELINE SEGMENT: 17600 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 10 % / P 10 % / G ___ % / S ___ % / M ___ % / R 70 %

Drift Debris on Beach: (Yes)/No (Supra/Upper)/Mid/Lower Type loss + weed

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: _____ m

Sporadic: Y/(N) % of Segment _____

Est. Oil Thickness where > 1cm: 0 cm Est. Oil Penetration: 0 cm

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

Fresh 0 % Mousse 0 % Tar Formation: 0 %

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

Comments:

This segment includes west Twin Bay, the headland on the west side of the entrance, Flag Island and Hollow Island. The shore principally consists of near vertical rock. Some areas have narrow high angle boulder beaches. Small pocket beaches occur in the bay or in small indentations. Wave exposure in West Twin Bay varies between low and moderate. The headland and islands west of the bay have moderate wave exposure. No oil was found in this segment and clean-up activities are not required.

ECOLOGICAL EVALUATION

LOCATION: Perry Is SITE: _____ OBSERVER: M. Rozema

LOCATION PREFIX: PR SEG. NO.: 15 LENGTH: 17,000 (M)

DATE: 5/20/89 TIME (HHMM): 10:30 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

Varies w/location

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

varies w/location

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

varies w/location

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: No oil found

CLEANUP PRECAUTIONS: N/A No cleanup needed

MAMMALS: Otters 1 Harbor Seals 1 Sea Lions ___ Whales ___
Other _____

BIRDS: _____

GENERAL OBSERVATIONS: _____

(version of 4/29/89)

CULTURAL RESOURCE EVALUATION

Date 5-20-89 Location Perry Island Site West Twin Bay

Location Prefix PR Segment # PR-15 Length 17,600 m

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 NO OIL / EXCELLENT VISIBILITY

Width of beach zone surveyed 0-25 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 High angle beaches, some rocky coastline on west end.

Fresh Water Sources A major stream enters ~~on~~ at the head of the bay

Sea Exposure Sheltered bay, except exposed to NW on west end of segment

Access/Safety Easy access / no safety consideration.

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 _____

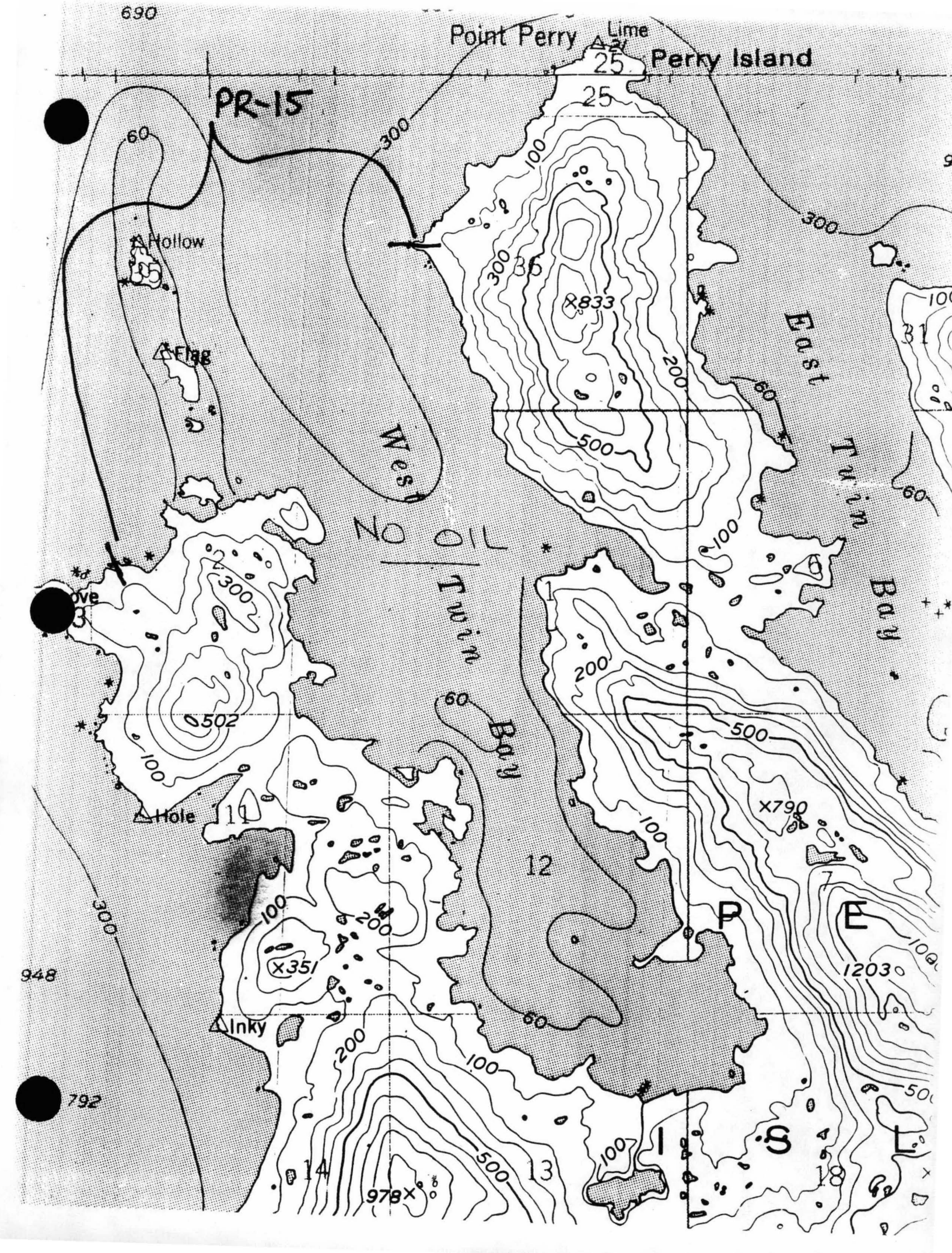
B/W Roll # _____ Frames _____

Observer(s) R Reanier

Time survey started 1030 Time survey ended 1230

Cultural resource considerations/restraints:

If ~~co~~ ~~undiscov~~ heretofore undiscovered cultural materials are uncovered during any subsequent cleanup activities, contact Exxon archeologist C. Mobley immediately


Point Perry
Lime
Perry Island
PR-15
Hollow
Flag
West
Twin
Bay
East
Twin
Bay
Hole
Inky
P
E
I
S
L
690
948
792
25
35
31
6
1
11
12
13
14
18
833
502
790
351
1203
978

(version 5/02/89)

SHORELINE CLEANUP PROGRAM

DATE 5/28/89 SHORELINE SEGMENT PR-16

LOCATION: (see enclosed map) Perry Island - South tip

(Beach just east of Meares Point)

ADEC NO._____ SHORELINE ASSESSMENT DATE:_____

Recommended Cleanup Activity(ies): For beach #1 (east of Meares Point.
- Manually collect oiled debris (algae/twigs/logs)
- Use hot water, high pressure flushing on boulders/cobbles.
- Use hot water, low to medium pressure/agitation on smaller deeply penetrated sediments (pebbles/cobbles on upper intertidal zone.)

Priorities Considerations:
BEACH #2 HAS high RECREATIONAL USE BY KAYAKERS AND IT SHOULD BE FLAGGED FOR HIGH PRIORITY IN PHASE II CLEANUP

Ecological Constraints (from site survey): Only beach #1 is recommended for cleanup. Because of abundant, flush low tide/subtidal zone including dense mussel beds. Confine all hot water flushing and skimming to mid high tide times.

NOTE THAT THERE IS AN ACTIVE BALD EAGLE NEST ON MEARES PT., BETWEEN BEACHES 1+2. (SEE ADVISORY).

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.
A CAC REPRESENTATIVE MUST BE NOTIFIED OF WHEN CLEANUP IS SCHEDULED SO THEY CAN BE ONSITE DURING CLEANUP OF BEACHES 1 AND 2.

Douglas R. Reger Date: 5/29/89
State Historic Preservation Officer *
ISCC Jacqueline Michel 6/3/89

EXXON: John Dorley Date: June 3/89

FOSC: J S Robbins Date: 6-3-89

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

SHORELINE OIL EVALUATION

Date: 5/19/89 Time: 1730-2030 Observer: C. Dillon

Surveyed From: (Foot/Boat) Helio/Plane Weather: (Sun) Cloud/Rain/Snow/Fog

LOCATION

LOCATION PERRY ISLAND SEGMENT NUMBER PR-16

LENGTH OF SHORELINE SEGMENT: 15,000 m (8.5 miles)

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 45 % / 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

one beach one beach 99% of segment

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

Continuous: Y/(N) % of Segment 1 Width of Band: _____ m

Sporadic: Y/(N) % of Segment _____

~~Est. Oil Thickness where > 1cm: _____ cm Est. Oil Penetration: _____ cm~~

~~Pooled Oil: _____ % "Free" Oil: _____ % Coated: H ___ % / M ___ % / L ___ %~~

~~Fresh _____ % Mousse _____ % Tar Formation: _____ %~~

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

Comments:

This page summarizes the entire segment which covers the West side of Perry Island. Only 2 beaches (at Meares Pt.) were impacted by oil at all; one of those beaches (shown on attached diagram 2) was so lightly oiled as to be considered negligible. The other beach was heavily oiled and is evaluated on the following form.

SHORELINE OIL EVALUATION

Date: 5/19/89 Time: 1810-1850 Observer: C. Dillon

Surveyed From: (Foot)/Boat/Helio/Plane Weather: (Sun)/Cloud/Rain/Snow/Fog

LOCATION

LOCATION Perry Island SEGMENT NUMBER PR-16 (Beach 1)

LENGTH OF SHORELINE ~~SEGMENT~~ Beach: 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: B 40% / C 20% / P 30% / G ___% / S ___% / M ___% / R 10%

Drift Debris on Beach: (Yes)/No (Supra/Upper/Mid)/Lower Type Twigs/grass 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~~ Beach 100 Width of Band: 10-20 m

Sporadic: Y/(N) % of Segment _____

Est. Oil Thickness where > 1cm: 6 cm Est. Oil Penetration: >15 cm

Pooled Oil: 5 % "Free" Oil: 10 % Coated: H 85 % /M ___% /L ___%

Fresh 100 % Mousse _____ % Tar Formation: _____ %

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

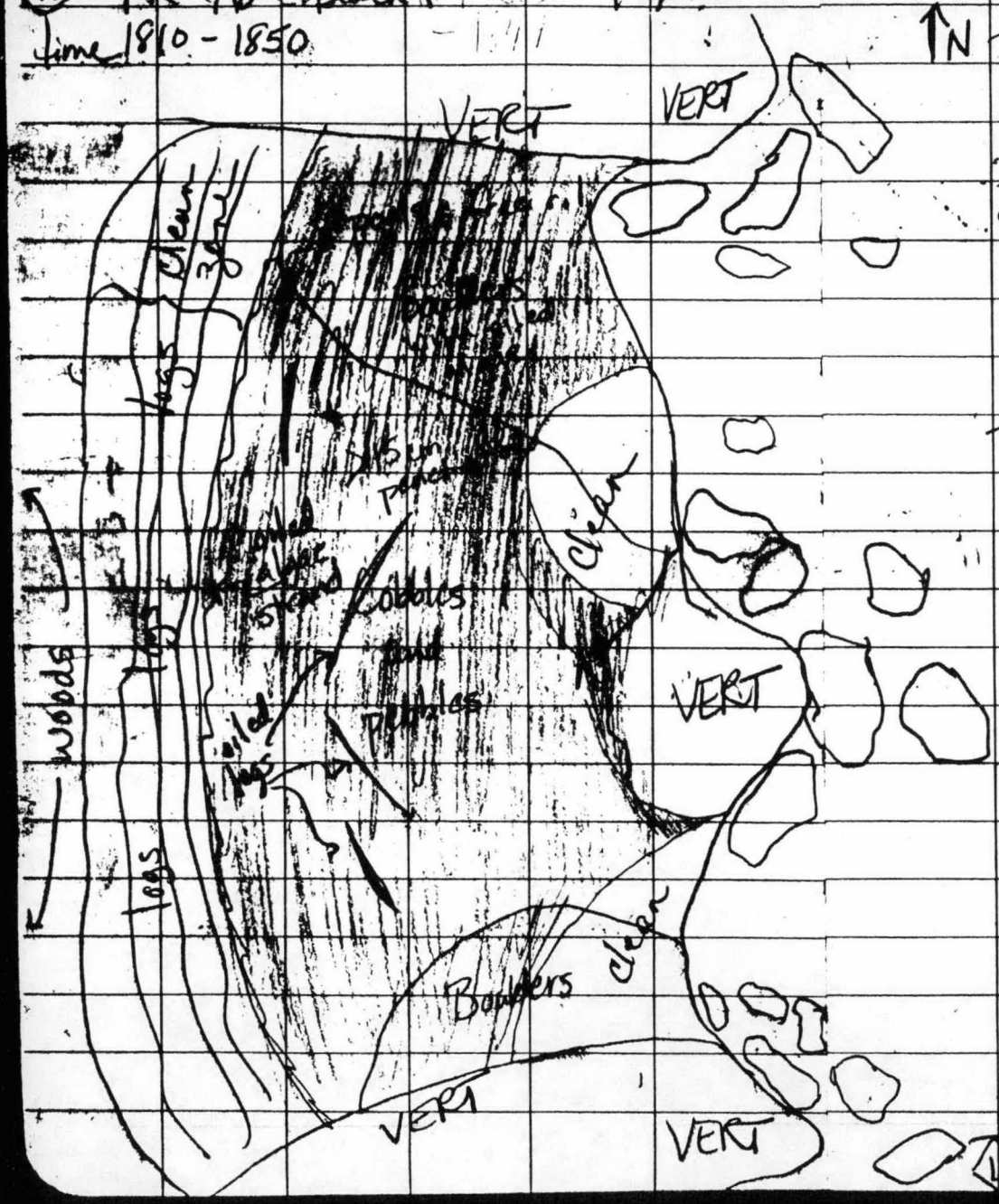
Comments:

Boulders at North end of beach contain many pools and free oil as well as a lot of oiled algae and twigs between crevices. Remainder of beach is mostly cobbles and pebbles, deeply penetrated with a large amount of oiled algae and logs in the middle and upper intertidal zone.

See Diagram #1 for details.

(14) PR-T6 Beach 1 5/19/89 DIAGRAM #1

time 1810 - 1850



West Cove at Mears Pt. (18)

Boulders at N end of beach are heavily coated with fresh black oil. There are many pools of oil up to 6 cm deep and a lot of free oil in the crevices

Heavily oiled algae and twigs are scattered all over the boulder field.

The cobbles/pebbles covering the rest of the beach are heavily coated with penetration E to or >15 cm deep.

An oiled algae strand covers the oiled extent of the UITZ and there are several oiled logs in the MITZ. A lot of oiled algae in MITZ as well.

All oil is a heavy, fresh coat with a lot of free oil and some pools among larger rocks.

Continuing along west side of Perry Island. Shoreline is almost entirely cobble and pebble beaches with some fucus and mussel covered boulders and small headlands.

Except for the 2 beaches at the west side of Meares Pt. (one of which was negligably oiled), this segment has not been oiled at all.

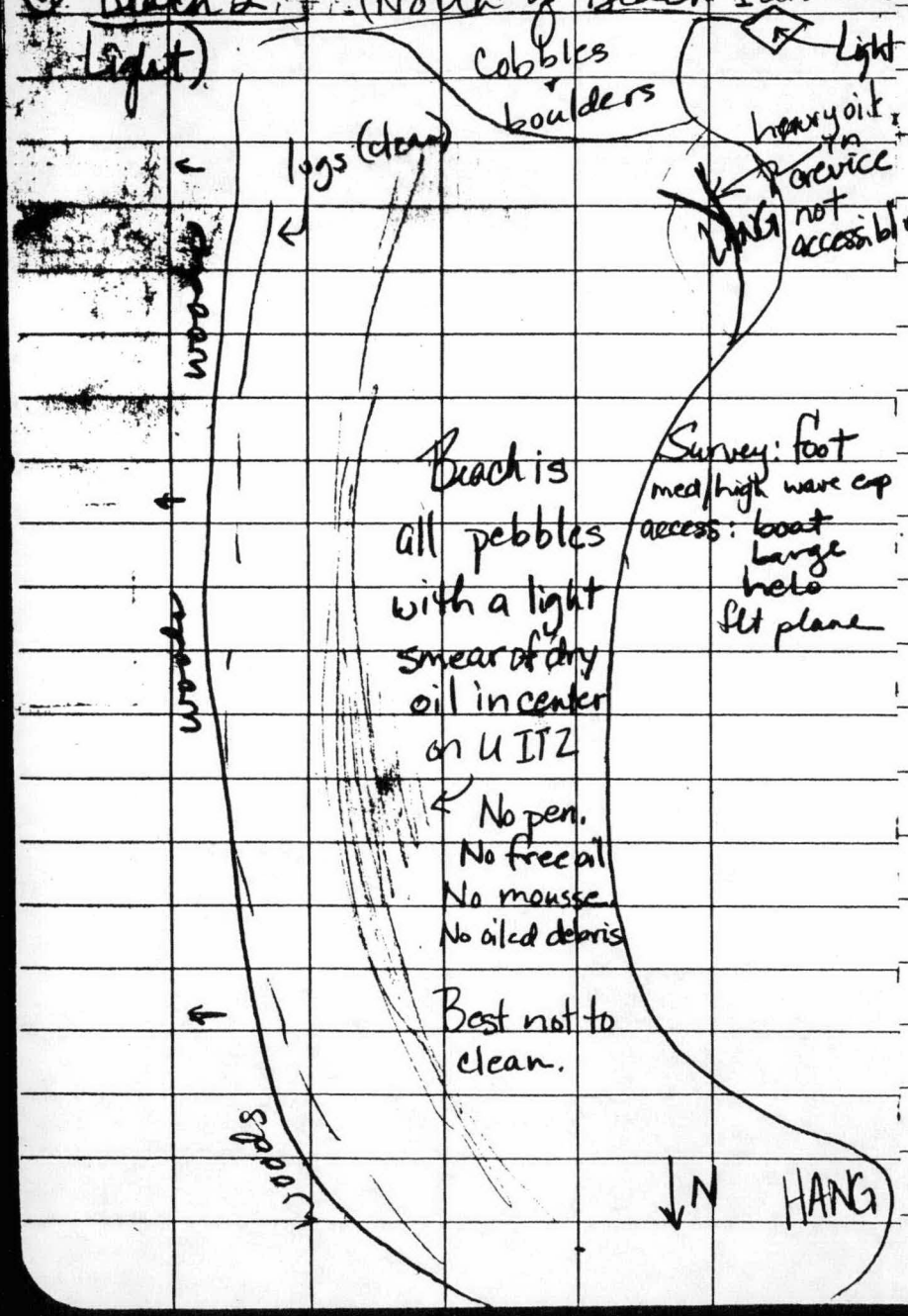
End of segment: Tipping Pt.

Not recommended for clean-up.

DIAGRAM #2

(A) PR-16 1900 5/19/89

Beach 2 (North of Beach 1 around Light)



ECOLOGICAL EVALUATION

LOCATION: PERRY ISLAND SITE: PR-16 OBSERVER: MEYER

LOCATION PREFIX: PR SEG. NO.: 16 LENGTH: 15,000 (M)

DATE: 05 / 19 / 89 TIME (HHMM): 1730 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

Beach #1 Fucus dead in oiled area, 50% unhealthy on North end LTZ. Heavily oiled/moosse on South end.

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

Mussel beds dense and unoiled in LTZ directly below heavy oiled boulders on North end of Beach #1; oiled mussels about 50% open in mid-tidal zone.

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

Beach #1 – oiled barnacles crumble easily, oiled throughout mid-tidal zone on North + South ends. Unoiled in LTZ.

Littorina

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

Littorina abundant and alive in LTZ and subtidal directly below heavily oiled MTZ.

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

Alive in LTZ directly below heavily oiled MTZ. (North + South ends of Beach #1)

OTHER OBSERVATIONS: Low tide, subtidal area on Beach #1 rich with live biota – starfish, anemonies abundant littorina, moon snails, hermit crabs, mussel beds, small fish, limpids. Three mature and one immature Bald Eagles at Southern Tip Light. Schools of fingerlings off Beach #1.

CLEANUP PRECAUTIONS: Live, abundant Biota is directly adjacent to mid tidal heavily oiled zone on north + south ends of Beach #1 and extreme care must be exercised – confine cleanup of beach to mid & high tides as egress from beach will be over these lush tidal areas. Do not use hot water in dense mussel areas – cool hot water with cold flooding.

MAMMALS: Otters 3 Harbor Seals 3 Sea Lions ____ Whales ____

Other _____

BIRDS: Pigeon Guillemot -1 Glaucous-winged Gull-28 Eagle-5 Nill Crows-4 Mew Gull-4 Harlequin Duck-7 Great Blue Heron-1 Murrelets-6 Arctic Tern-2 Common Merganzer -1

GENERAL OBSERVATIONS: 99% of segment was oil-free with abundant biota.

(version of 4/29/89)

CULTURAL RESOURCE EVALUATION

Date 5/20/89 Location Perry Island Site

Location Prefix PR Segment # 16 Length 15,000 m

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 one beach heavy, on beach very light, the rest was clean

Width of beach zone surveyed 0 - 10 m Tree fringe surveyed 0 - 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 Area 1 steep cobbled beaches, area 2 the same, area 3 moderately sloped gravel beaches

Fresh Water Sources Several streams

Sea Exposure open to south or west

Access/Safety Area 1 poor, Area 2 the same, area 3 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 # None Frames

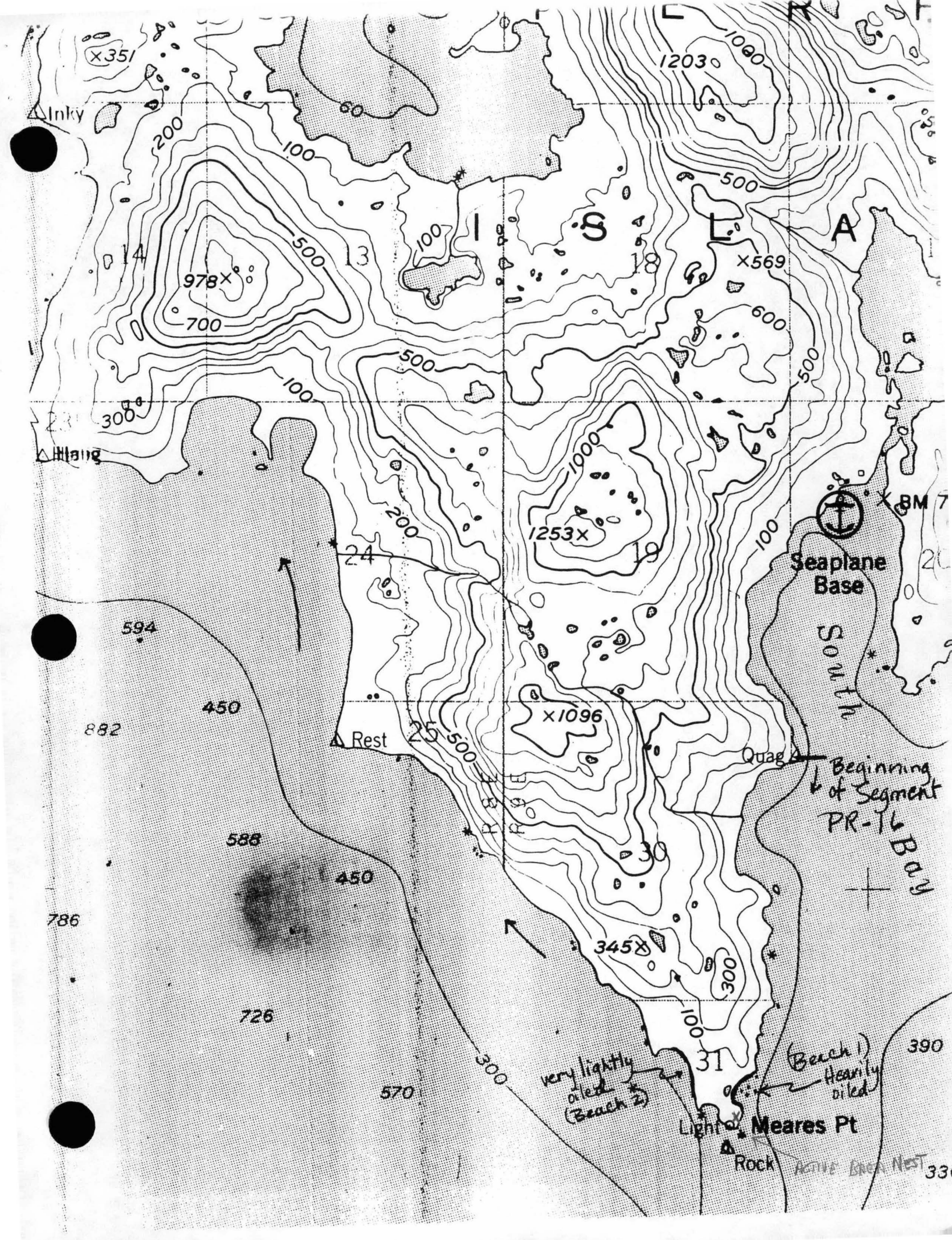
B/W Roll # ~~C. Wilson~~ Frames

Observer(s) C. Mobley

Time survey started 1730 Time survey ended 2030

Cultural resource considerations/restraints:

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


Inky
Hang
Rest
Quag
Seaplane Base
South Bay
Meares Pt
Light
Rock
Beginning of Segment PR-16
(Beach 1) Heavily oiled
very lightly oiled (Beach 2)
ACTIVE BREED NEST
978
1253
1096
1203
569
345
1000
500
100
200
300
600
700
60
594
450
882
588
786
726
570
390
330
BM
14
13
18
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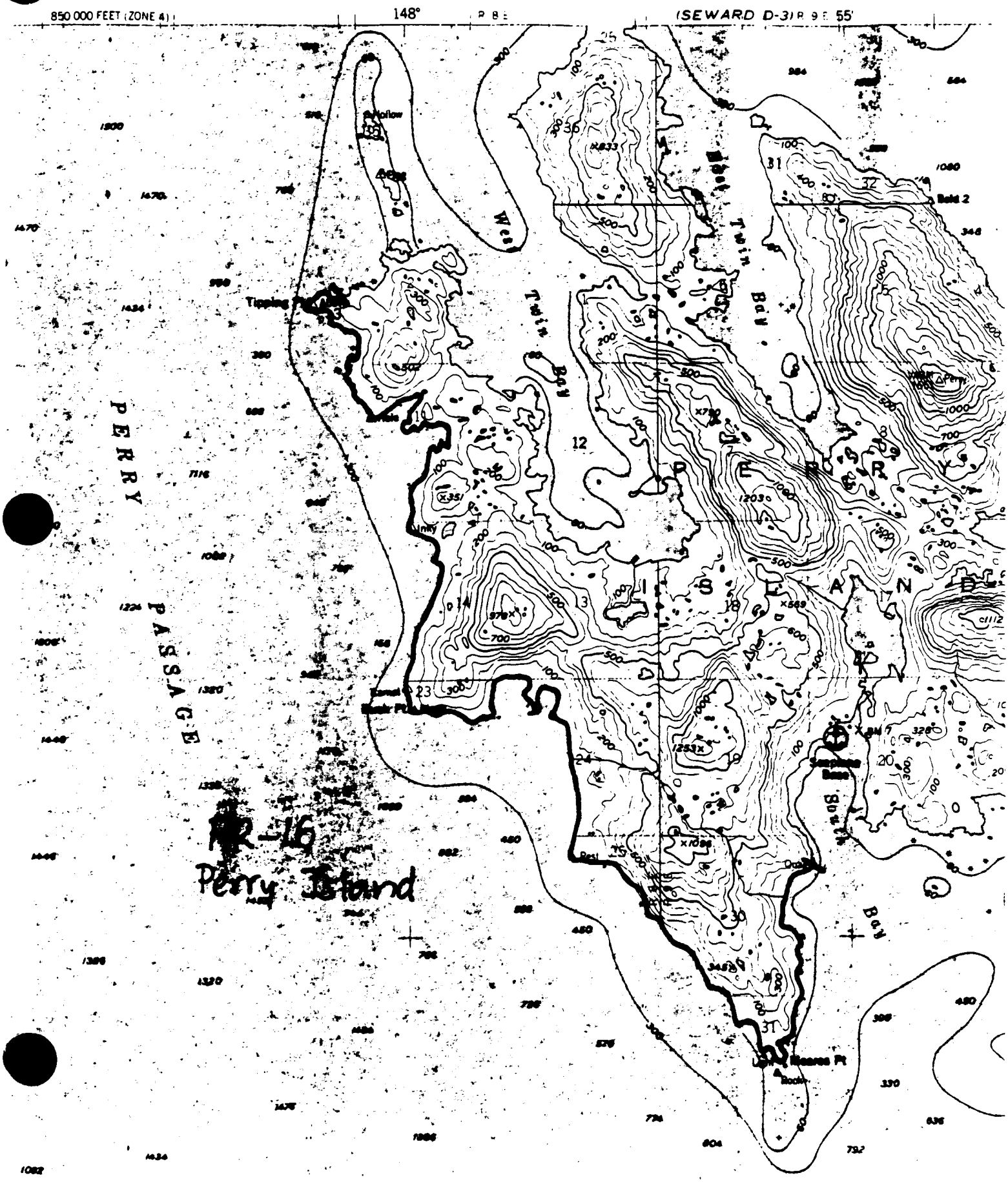
30
31

3

ERIOR


850 000 FEET (ZONE 4)
148°
(SEWARD D-3)
PERRY PASSAGE
Twin Bay
Perry Island
Bald 2
Tipping Point
Sinkey
Sleepless Bay
South Bay
Rocky
Reserve Pt
PERRY ISLAND

SEG PR-13

INSPECTION # 1

DATE 6/13/89

SEGMENT INSPECTION RECORD

Shoreline Treatment Process(es) Completed for this Segment

- [ ] Hot water wash
- [ ] Warm water wash
- [ ] Water deluge
- [ ] Mechanical
- [ ] Non-mechanical
- [X] Other

Exxon

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

Comments No Cleaning Required

Signature Peter A. Allen Date: 6/13/89 Time:

Printed Name Peter A. Allen

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
- [X] No oil 3 block marks by Exxon - not CG or ADEC

- [ ] No surface oil and no subsurface oil

Reassessment

- [■] Yes - necessary
- [ ] No - not necessary unless re-oiled

ADEC rep

Comments ADEC REP STAN TUTTLE WAS PRESENT DURING INSPECTION.

Signature Date: / / Time:

Printed Name

FOSC rep

Mobilization not required @ this time

~~Demobilization approved/disapproved~~

Comments Mobilization not required this time due to limited amounts of oil.

Signature Thomas D. Date: 6/14/89 Time: 2120

Printed Name THOMAS D. HARRIGAN LT USCG

COPY: EXXON ADEC FOSC ISCC

SEG PR-14

INSPECTION # 1

DATE 6/13/89

TREATMENT MANUAL, 6/3/89

SEGMENT INSPECTION RECORD

Shoreline Treatment Process(es) Completed for this Segment

- [ ] Hot water wash
- [ ] Warm water wash
- [ ] Water deluge
- [ ] Mechanical
- [ ] Non-mechanical
- [x] Other

Exxon

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

Comments No Cleaning Required

Signature Peter A Allen Date: 6/13/89 Time:

Printed Name Peter A. Allen

Existing Shoreline Condition As Visually Evaluated by ADEC and USCG

Surface Oil

- [ ] Heavily oiled
- [ ] Medium oiled
- [ ] Lightly oiled
- [x] Very lightly oiled
- [ ] No oil

Subsurface Oil

- [ ] Heavily oiled
- [ ] Medium oiled
- [x] Lightly oiled
- [ ] Very lightly oiled
- [x] No oil } BLOCKS CHECKED BY EXXON NOT ADEC OR USCG

- [ ] No surface oil and no subsurface oil

Reassessment

- [x] Yes - necessary
- [ ] No - not necessary unless re-oiled

ADEC rep

Comments – Recommend moving to more heavily contaminated areas at this time

Signature Danny R Timmons Date: 6/16/89 Time: 2015

Printed Name Danny R. Timmons Env. Engr, ADEC

FOSC rep

Demobilization approved/~~disapproved~~

Comments VERY LITTLE SURFACE OIL – LOBBIE SHORELINE HAD LIGHT OILING.

Signature Thomas D. [illegible] Date: 6/16/ Time: 2015

Printed Name THOMAS D. [illegible] LT USCG

COPY: EXXON ADEC FOSC ISCC

FOSC 6/4/89

PR-16 SEGMENT

DATE 8-27-89 INSPECTION RECORD

Shoreline Treatment Process(es) Completed for this Segment

- [x] Hot water wash
- [x] Warm water wash
- [x] Water deluge
- [ ] Mechanical
- [x] Non-mechanical SNARE
- [ ] Other

Exxon

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

Comments TREATMENT OF SEGMENT PR-16 IS COMPLETE. READY FOR DEMOBILIZATION AND DEPLOYMENT TO NEXT SEGMENT

Signature Harold A Russell Date: 8/27/89 Time: 12:31

Printed Name Harold A Russell

Existing Shoreline Condition As Visually Determined by USCG

Surface Oil

Percent	Degree of Oiling
less than 1%	Heavy
less than 1%	Medium
2%	Light
2%	Very Light
94%	None
100 %	

Subsurface Oil

Heavy to medium South beach areas

[x] Yes [ ] No

COMMENT BELOW

Reassessment

- [x] Yes - necessary
- [ ] No - not necessary unless re-oiled

Existing Shoreline Condition As Visually Determined by ADEC

Surface Oil

Percent	Degree of Oiling
less than 1%	Heavy
less than 1%	Medium
5%	Light
5%	Very Light
88%	None
100 %	

Subsurface Oil

[x] Yes [ ] No

COMMENT BELOW

Reassessment

- [x] Yes - necessary
- [ ] No - not necessary unless re-oiled

ADEC rep

Comments Very long segment ~ 10 miles. Southeast beaches heavily impacted. Deep subsurface in gravel beaches. Grass contamination removed. No free flowing oil observed. Recommended maintaining sorbent booms in some places. Need to remove oiled debris.

Signature Joseph S. Santoro Date: 8/27/89 Time: 1313

Printed Name Joseph S. Santoro

FOSC rep Demobilization (approved) disapproved

Comments to replace snare & rake oil soaked debris - bio-remediation approved

Signature Paul B. Ganske Date: 8/27/89 Time: 1300

Printed Name Paul B. Ganske LT

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