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BIE4 SEGRET PAGE 2

TESTING AT HAS REVEALED THE FOLLOWING INFORMATION:

SEA WATER DIFFUSES INTO THE SIDES OF A SUBMERGED ROLL OF FILM. THE RATE OF DIFFUSION APPEARS TO BE INDEPENDENT OF PRESSURE ETHEEN I AND 13 ATMOSPHERES AT . 188 TO . 125 INCH PER WEEK AFTER A HIGH RATE FOR THE FIRST WEEK. EXTRAPOLATED DATA INDICATES TOTAL MENETRATION ON EACH SIDE OF JUST OVER 2 INCHES IN 96 DAYS. PHYSICAL MANIFESTATION OF THIS DIFFUSION IS THE SWELLING OF THE

- EMULSION WHICH RESULTS IN DEFORMATION OF THE ROLL AT THE ED IE WHICH
- LOCK LIKE PLANGES OF "EARS" ON THE RULL. THE SUPPORT IS STRETCHED
- ALONG THE EDGES WHICH WILL CAUSE SEVERE IMAGE DISTORTION.
- SENSITOMETRICALLY, THE DEFORMED EDGE HAS TWO DISTINCT AREAS. UNE IS THE EXTREME EDGE WHERE THE FILM DEVELOPS UP TO A VERY HIGH DENSITY.
- THIS AREA IS A NARROW STRIP ABOUT 0. 265 INCH WILLE ALONG EACH EDGE
- OF THE WEB. THE OTHER AREALIS AN AREA OF LOW DENSITY AND ENCOMPASSES THE REST OF THE EDGE WHERE WATER HAS DIFFUSED.
- THERE MAY BE SOME RECOVERABLE IMAGERY IN THIS AREA, BUT THERE IS
- AN APPARENT SPEED LOSS OF ABOUT ONE SIGP. THE DRY, CENTRAL PORTION OF THE WEB APPEARS NORMAL BOTH PHYSICALLY AND SENSITOMETRICALLY.
- WHERE DIRECTLY EXPOSED TO SEA WATER, THE EMULSION IS DETACHED FROM
- THE SUPPORT AND SOMETIMES DISSOLVED. THIS MAPPENS AT THE EXTREME

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THE DEGREE OF SPOXING APPEARS TO BE DEFOENT OF ROLL ITIGHTNESS AND OTHER THINGS. SO IS UNPREDICTABLE IN ACTUAL FARLES.

- D. PRELIMINARY CONCLUSIONS OF PREDICTIONS HAVE BEEN REACHEL WHICH ARE AS FOLLOWS:
- (1) IF THE FILM REMAINS IN A SOLID (INTELESCOPED) ROLL USE ING DEEP SUBMERGENCE, IT IS POSSIBLE TO RECOVER UP TO ONE-HALF THE MAGERY. IN GENERAL, FROM A STRIPE DOWN THE CENTER OF THE WEB.

 THERE WILL BE CONSIDERABLE SUPPORT DEFORMATION ALONG THE ELGES OF THE FILM AND POSSIBLY SOME LOSS OF EMILSION ALONG THE EXTREME ELGES.
- FILM EXPOSED DIRECTLY TO SEA WATER WILL NOT CONTAIN RECOVERABLE MAGERY DUE SITHER TO EXCESSIVE FOO OR TO THE LOSS OF THE ENGLSTON PROMITHE SUPPORT.

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- E. ALTROUGH TEST RESILTS DEMONSTRATE RATHER CONCLUSIVELY THAT MUCH
- OF THE FILM'S INFORMATION CAPACITY WILL BE IRRETREIVABLY LOST,

WE DO NOT ADVOCATE DISCONTINUANCE OF RECOVERY EFFORT. IN THE EVENT

OF RECOVERY, WOULD ADVOCATE KEEPING THE TEMPENATURE OF THE

PAYLOAD AS LOW AS PRACTICABLE IN ORDER TO KEEP CHEMICAL AND BICLUG-

- F. A BRIEFING ON OUR FINDINGS TO DATE WILL BE SCHEDULED FOR
- PRESENTATION TO THE CCB ON 23 SEPT. HOUZVER, ADD ITIONAL BRIEFINGS ON UP-DATED FINDINGS CAN BE MADE AVAILABLE UPON REQUEST.

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