



~~TOP SECRET~~
HANDLE VIA ~~EXCLUDED~~
CONTROL SYSTEM

ZCZCXQB721BAA205
RR RUXQAA
DE RUXQBAA 053 3072300
ZNY XXXXX YYY
R 022217Z
BT
XXXXX
GUARD 485
GUARD PASS WHIG

9313
/CZ

~~TOP SECRET~~ 022217Z NOV 72 CITE CHARGE 5944.

WHIG
GAMBIT

FOR: F. HOFFMAN FROM: H. COHEN

THE FOLLOWING MSG BEING RETRANSMITTED FOR YOUR INFO:
QUOTE:

1. WE HAVE RECOVERED SOME DEBRIS THAT MAY BE FROM GAMBIT FM-35. WE WILL BE ABLE TO GET TWO SMALL PIECES OF GLASS TO YOU THROUGH [REDACTED] BY 3rd OCT 1972. MORE AND LARGER PIECES OF GLASS (AND POSSIBLY OTHER DEBRIS) WILL BE AVAILABLE IN A FEW DAYS. REQUEST YOU START AN ANALYSIS AS SOON AS POSSIBLE AFTER RECEIPT OF THE GLASS TO ESTABLISH WHETHER IT DID OR DID NOT COME FROM FM-35.
2. PLEASE BE ADVISED THAT THIS INFORMATION IS BEING

DISTRIBUTION		
SAFSS	A	I
Dr McLucas		
SS-1		
SS-2		
SS-3		
SS-4		
SS-5		
SS-7		
SS-		
COMP		
SS-1/RF		
RD-2/RF		
FILE		

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HELD VERY TIGHTLY FOR INTERNATIONAL DIPLOMATIC REASONS AND ONLY THOSE PEOPLE WHO HAVE ABSOLUTE NEED SHOULD BE TOLD.

E-2 IMPDET

~~TOP SECRET~~

BT

~~TOP SECRET~~
HANDLE VIA ~~EXCLUDED~~
CONTROL SYSTEM

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~~TOP SECRET~~
HANDLE VIA BYEMAN
CONTROL SYSTEM

NOV 6 PM 1 42
SAFSS

9385-WHIG
DZ

ZCZCXQA328BAA311
PP RUXQAA
DE RUXQBAA 104 3111830
ZNY XXXXX YYY
P 061707Z
BT
XXXXX
GUARD 503
GUARD PASS WHIG

	NON
SWCS	A I
SA	
DD	
SS-1	
SS-2	✓
SS-3	
SS-4	
SS-5	1
SS-6	
SS-7	✓
COMP	
SS-TRF	✓
RF-IT	
FILE	

~~TOP SECRET~~ 061707Z NOV 72 CITE CHARGE 5987.
PRIORITY WHIG

GAMBIT
FOR: F. HOFFMAN FROM: H. COHEN
THE FOLLOWING MSG BEING RETRANSMITTED FOR YOUR INFO.

~~TOP SECRET~~ 032041Z NOV 72 CITE BRISK 2277.
PRIORITY CHARGE
GAMBIT

FOR L W ROBERTS/R H JACOBSON/H COHEN
FROM [REDACTED]

SUBJECT: ANALYSIS OF UNKNOWN FRAGMENTS
REFERENCE: CHARGE 5830

VISUAL, SPECIFIC GRAVITY, AND SPECIROGRAPHIC TESTS OF TWO
SAMPLES SUPPLIED LEAD TO FOLLOWING TENTATIVE CONCLUSION: WE ARE
UNABLE TO STATE THAT SAMPLES ARE UNIQUELY FROM FM-35. HOWEVER, IF

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SAMPLES ARE FROM FM-35 THEY ARE PIECES OF THE STEREO MIRROR. RE-
FRACTOMETER TESTS NOT YET COMPLETE WILL PROVIDE ADDITIONAL INFORMA-
TION.

RATIONALE: THE FRACTURES HAVE APPEARANCE OF THOSE IN FUSED SILICA.
THE DEGREE OF TRANSPARENCY TO UV IS COMPARABLE TO THAT OF FUSED
SILICA AND ULE. THE MEASURED SPECIFIC GRAVITY (APPROX. 2.2) OF BOTH
SAMPLES IS COMPARABLE TO THE SPECIFIC GRAVITY OF FUSED SILICA (USED
IN OM-35'S STEREO MIRROR) AND ULE (USED IN OM-35'S PRIMARY MIRROR)
AND DIFFERENT FROM THE SPECIFIC GRAVITY OF SK-14 AND LAKN-14. (USED
IN OM-35'S ROSS CORRECTOR). SPECTROSCOPY SHOWS ESSENTIAL ABSENCE OF
ELEMENTS COMPRISING SK-14 AND LAKN-14 (POIASSIUM, BARON, LANTHANUM
AND OTHERS) AND ABSENCE REPEAT ABSENCE OF TITANIUM, A PRINCIPLE
INGREDIENT OF ULE. SPECIROSCOPY ALSO SHOWS HIGH SILICON CONTENT,
THE MAJOR INGREDIENT OF FUSED SILICA AND ULE. AGAIN FM-35 CONTAINED
THE FOLLOWING:

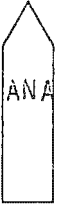
SK-14 AND LAKN-14 - ROSS CORRECTOR GROUP

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LE - PRIMARY MIRROR
FUSED SILICA - STEREO MIRROR

ANALYSIS OF A BROWN STAIN PRESENT ON ONE OF THE SAMPLES SHOWED A



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PREDOMINANCE OF SILICON, WITH SMALL AMOUNTS (OF THE ORDER OF ONE PERCENT) OF IRON, MAGNESIUM, AND ALUMINUM, WITH LESSER AMOUNTS OF OTHER ELEMENTS. ALTHOUGH ONE SAMPLE EXHIBITED EVIDENCE OF A MANUFACTURED SHAPE IT WAS NOT LARGE ENOUGH TO BE TRACED TO ANY SPECIFIC LOCATION IN THE PSV.

ADDITIONAL INFORMATION WILL BE FORWARDED WHEN AVAILABLE.

IF LARGER SAMPLES WERE AVAILABLE WITH EVIDENCE OF MANUFACTURED SHAPE, IDENTIFICATION OF THE ORIGIN IN THE PSV COULD BE ATTEMPTED.

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