

PHOTOGRAPHIC EVALUATION REPORT

Mission 9037 23, 24, 25 and 26 June 1962 Z

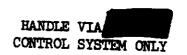
FE No. 32-62

PART I	FORWARD CAMERA	<u>PAGE</u> 1-4
PART II	AFT CAMERA	5-8
PART III	FRAMING CAMERA	9-10
PART IV	VEHICLE ATTITUDE DATA	11
PART V	DENSITY CHART	12

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In Accordance with E. O. 12958

on <u>NOV 26 1997</u>



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PART I - FORWARD CAMERA

Mission No: 9037

Filter, Main: W 21

Camera No: 80 Slit Width: 0.200"

Filters, Horizon: Wratten 25

Evaluated By:

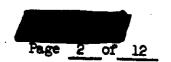
Film Type: J-23-7600 (SO 132)

1. Shutter Operation (Horizon Cameras): Operational.

2. Horizon Camera Exposure:

to garage

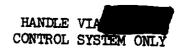
- a. Port Horizon Camera F 8.0, 1/50 second. Imagery is overexposed. b. Starboard Horizon Camera F 8.0, 1/50 second. Imagery is fuzzy and overexposed.
- 3. Camera Number: The camera number and binary index lamp fails to function after pass DO5, frame 112.
- 4. Binary Operation: Functional. Binary pip numbers 7 and 11 remain faintly lighted in some instances when they should not record, causing misreadings by automatic readout devices. Double and triple binary recordings occur on the last frame before camera shut-off. For further information on binary problems, reference should be made to a report on binary clock malfunctions that will soon be released by NPIC/TID/TAB.
- 5. Film Metering:
 - a. Metering on the supply side (port horizon camera) averages 0.23", ex-
 - cept on the last frame of the mission, where it measures 2.3".
 b. Metering on the take-up side (starboard horizon camera) averages 0.15", except on the last frame of the mission, where it measures 3.5".
- 6. Film Tracking: Normal.
- Timing Pulses: Functional and readable; however, the stretch pulse signifying the firing of the framing camera is erratic, functioning correctly approximately 70% of the time. The gap in the timing pulses, employed in determining an exact time reference, is always present.
- 8. Fiducials:
 - a. Main Camera Slightly ragged but functional.
 - b. Horizon Cameras Well defined, with little or no flare.
- 9. Light Leaks: Miscellaneous light leaks, usually occurring on the last few frames of every pass, fogs portions of approximately 85 frames. Small barshaped light leaks occur intermittently on the first and last frames of some passes.
- 10. Static Electricity: Environmental tests performed by the camera manufacturers indicate that fog patterns, usually attributed to possible light leaks occurring on frame 3 of most passes in previous missions, may be caused by a corona type static discharge within the camera. A fog patch of this type occurs on frame 3 of every pass after DO8 in this mission. Edge static is present on the leading edge of pass DO8, frame 66; pass A31, frames 6, 7, 18, 19, 21, 22, 26, 48, 49; pass A32, frames 6, 10, 20. Edge static occurs on the trailing edge of pass DO6, frames 31-60; pass A49, frame 49; pass D49, frame 54. Small possible static marks are present intermittently between the starboard horizon camera format and the main format.
- 11. Pinholes: Few. 32 frames throughout the mission have a few scattered pinholes.
- 12. Abrasions and Scratches: Small scratches occur on 29 frames scattered throughout the mission. Examples: pass AO3, frames 69, 76; pass DO9, frames 1, 19, 81; pass D49, frames 1, 22, 24, 45. Heavy rail scratches are present on both leading and trailing edges of the film. HANDLE VIA CONTROL SYSTEM ONLY



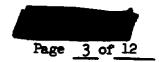
- 13. Tearing: No tearing is present, however a manufacturing splice occurs on pass AO4, frame 53. Transparent splices occur on pass DO5, between frames 78 and 79; pass DO8, between frames 51 and 52; pass D47, between frames 16 and 17.
- 14. Water Marks: Very few. Pass Al5, frame 9 in an example of the type of water spots present.
- 15. Pressure Streaks: Small shiny emulsion rubs occur intermittently throughout the film.
- 16. Processing Streaks: Plus and minus density streaks, possibly occurring during processing, are present on approximately 50 frames. Examples: pass D07, frames 149, 150; pass D37, frames 131-139, 146-149, 162-178.
- 17. Blistering and Crimping: 27 small blisters are scattered throughout the film. Crimping occurs on approximately twenty scattered frames.
- 18. Contrast: Medium 80%, low 20%.
- 19. Apparent Resolution: Good. Acuity appears better than that of mission 9035 but does not achieve the quality observed in mission 9032. Very little difference can be seen between the forward and aft cameras of this mission.
- 20. Apparent Granularity: Fine.
- 21. Photo Quality:
 - a. Main Camera Good. Degradation is due to light leaks, possible static problems, scratches and miscellaneous minor streaks and spots.
 - b. Horizon Cameras Fair. Both horizon camera images are overexposed with the starboard horizon image noticeably fuzzy.
- 22. Camera Operation:
 - a. Main Camera Good. The only apparent degradations are due to a possible corona static effect noticeable on the third frame of passes after DOS, and the loss of the camera number and binary index after pass DO5, frame 112.
 - b. Horizon Cameras Fair. Both horizon cameras are overexposed and the starboard imagery is fuzzy.
- 23. Suitability for PI: Good. The only major degrading factor is atmospheric conditions.

Remarks:

- 1. Plus density streaking is evident on several passes emanating from dense imagery, such as clouds, with streaking in the direction of film supply.
- 2. The end-of-pass marker was double exposed on the majority of passes, usually associated with a double exposure of the binary readout.
- 3. Small bits of emulsion have been pulled or lifted from approximately 75 frames scattered through the film.
- 4. Foreign matter, usually consisting of small bits of wax, lacquer, opaquing material from the titling and embedded dirt, occurs on approximately 125 frames scattered through the film.
- 5. Skiving and skiving marks are intermittent and of minor consequence.
- 6. Handling marks, fingerprints and cinch marks occur on 20 frames scattered through the film, usually on the first and last frames of passes.
- Titling is smeared on pass Al3, frame 39.



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8. Enumerated below is the amount of overlap (in percent); the amount of film transport (in inches); and the linear distance not occupied by timing pips on the last frame of all passes (measured in inches from the supply end of the main format):

	Overlap				Film Tran	Film Transport		
Pass	Begir Frame I	nning Percent	End Frame	l Percent	First Frame	Last Frame	Supply Side	
								
DO1	8	1	Clou	ıds	None	19.0"	7.5"	
A03	20	1	102	5	16.8"	15.0"	12.5"	
DO3	4	2	54	9	13.0"	18.8"	12.2*"	
A04	Clou		53	7	NM	16.4"	12.4"	
DO4	6	6	3.7	9	NM	20.3"	12.0"	
D05	7	4		nuds	18.2"	22.5"	12.0"	
D06	Clou	ıds	156	11	NM	22.0"	12.0"	
DO7	7	3	175	10	20.5"	22.0"	12.0"	
DO 8	4	2	110	9	NM	20.5"	12.0"	
D09	4	3	Wat		NM	22.3"	7.4"	
A13	Clou	ds	55	4	20.3"	13.8"	12.6"	
A14	5	0	60	ī	11.9"	13.5"	12.7"	
A15		0	40	2	11.5"	NM	12.6"	
D15	5 3	4	17		6.3"	21.0"	12.0"	
A16	5	0	52	9 5	NM	15.8"	12.6"	
A17	15	2	97	ž.	5.0"	13.2"	12.5"	
A18	8	1	135	3 8	NM	16.0"	12.4"	
D23	5 8		98	11	14.1"	20.5"	10.0"	
D24	8	5 3	108	10	NM	21.0"	12.0"	
D25	4	2	68	9	NM	20.4"	12.0"	
A29	7	3	Clo		18.4"	13.5"	13.5"	
A 30	10	ĺ	85	7	6.0"	14.2"	12.5"	
A31	5	0	73	3	12.1"	16.3"	12.6"	
D31	5 6	3	17	9	NM	21.3"	11.7"	
A32	6	2	48	9	NM	14.4"	12.6"	
A35	7	2	101	7	17.5"	15.5"	12.2"	
D 3 6	14	l	84	10	NM	21.7"	12.0"	
D37	5	3	178	12	19.7"	22.0"	11.8"	
D 3 8	Cloud	is	171	7	20.2"	21.5"	12.0"	
D41	8	5	59	9	NM	20.7"	12.0"	
A47	12	1	58	9 4	19.0"	14.6"	12.6"	
D47	16	7	21	7	NM	21.7"	11.7"	
A48	9 8	1	63	2	19.6"	14.8"	12.3"	
A49		1	72	5	12.9"	14.9"	12.4"	
D49	5	4	55	11	NM	20.0"	12.0"	
A50	1	0	3	0	18.1"	NM	Continuous	

Note: NM denotes "Not Measurable"

Density readings were made on every pass using the MacBeth Quantalog Densitometer Model EP 1000 with an EP 20 attachment. Absolute values read for D Max and D Min as well as Gross Fog are correlated below.

Pass	Part	Frame	D Max	D Min	Gross Fog	Sun Angle*
DO1	1	10	1.50	0.22	0.08	
A03	1	15	1.89	0.37	0.11	
	2	85	1.25	0.23	0.11	
D03	1	9	1.90	0.19	0.08	
A04	1	15	2.08	0.38	0.10	
DO4	1	33	1.82	0.23	0.08	
D 05	1	9	1.90	0.3 8	o.o8	
D06	2	134	1.78	0.30	0.10	
шо	2	16	1.88	0.45	o. o 8	
		49	2.10	0.27	0.10	
	3	146	1.84	0.27	0.09	
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Pass	Part	Frame	D Max	D Min	Gross Fog	Sun Angle*
D07	1	13	1.96	0.33	0.10	
	2	109	1.88	0.32	0.09	
	3 1	166	1.95	0.28	0.10	
DO 8	ī	7	2.10	0.20		
	2	92	1.95	0.31	0.10	
10 09	1	7	1.92	0.19	0.11	
	2 1 2	7Ġ	1.88	0.22	0.10	
A13	1	50	1.83	0.50	0.10	
A14	1	48	1.63	0.27	0.09	
A15	ĺ	13	1.97	0.25	0.11	
D15	1	5	1.11		0.10	
A16	1	3 4	1.70	0.30 0.22	0.10	
A17	1	2	1.55	0.36	0.11	
	2	89	1.92	0.30	0.11	
A18	1	58	1.90	0.32	0.09	
	2	108	1.83	0.38	0.12	
D23	1	6	1.84	0.39	0.09	
	1 2	82	1.70	0. 3 8	0.10 0.10	
D24	1	3	1.93	0.23	0.10	
	2	93	1.62	0.37	0.11	
D25	1	56	1.88	0.30	0.10	
A29	1	21	1.84	0.38	0.11	
A 30	1	20	1.66	0.16	0.10	
	2	82	1.70	0.34	0.10	
A31	1	2 9	1.56	0.19	0.10	
D31	1	9	1.91	0.37	0.09	
A32	1	43	1.78	0.32	0.18	
A35	1	53	2.05	0.38	0.22	
	2	93	1.45	0.30	0.18	
D 3 6	1	12	1.99	0.60	0.18	
	2	88	1.96	0.37	0.21	•
D 3 7	1	2	1.94	0.68	0.18	
	2	37	2.00	0.48	0.21	
0	3	16 4	1.89	0.53	0.19	
D3 8	1	66	1.94	0.60	0.26	
	2	113	1.92	0.48	0.20	
- 1 -	3	152	1.69	0.58	0.20	
D41	1	26	1.96	0.63	0.21	
A47	1	3 6	1.75	0.42	0.20	
D47	1	7 8	1.86	0.70	0.20	
A48	1		1.94	0.38	0.22	
A49	1	41	1.84	0.34	0.19	
D49	1	9 2	1.92	0.44	0.22	
A50	1	2	1.33	0.46	0.20	
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^{*} Sun angle data not published at this date. This information will be sent out in addendum to the Film Evaluation Report for Mission 9037.

Average D Max	1.82
Average D Min	0.36
Average Gross Fog	0.13
Range D Max	1.11 - 2.10
Range D Min	0.16 - 0.70
Overall Range	0.16 - 2.10
Range Gross Fog	0.08 - 0.26



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17 September 1962 Page <u>5</u> of 12

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PART II - AFT CAMERA

Mission No: 9037

Filter, Main: Wratten 21 Filters, Horizon: None_

Camera No: 81 Slit Width: 0.200"

Evaluated By:

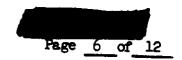
Film Type: J-23-7600 (SO 132)

- 1. Shutter Operation (Horizon Cameras): Operational.
- 2. Exposure:
 - a. Port Horizon Camera F 6.8, 1/25 second. Imagery is heavily overexposed.
 - b. Starboard Horizon Camera F 6.8, 1/25 second. Imagery is heavily overexposed.
- 3. Camera Number: The camera number and binary readouts are legible and functional.
- 4. Binary Operation: Functional. Double and triple binary recordings occur on the last frame before camera shut-off.
- 5. Film Metering:
 - a. Metering on the supply side (port horizon camera) averages 0.24".
 - b. Metering on the take-up side (starboard horizon camera) averages 0.2".
- 6. Film Tracking: Normal.
- 7. Timing Pulses: Functional and readable.
- 8. Fiducials:
 - a. Main Cameras Slightly ragged but functional.
 - b. Horizon Cameras The starboard horizon camera fiducial nearest the main camera format "blossomed" throughout the film. All other fiducials were well defined with little or no flare.
- 9. Light Leaks: Miscellaneous light leaks, usually occurring on the last few frames of every pass, degrades portions of approximately 75 frames. Small bar-shaped light leaks occur on one of the last three frames of every pass. Thin diagonal light streaks appear on pass DO1, frames 2, 20; pass AO3, frame 2; pass DO3, frame 2; pass Al3, frame 3; pass Al5, frame 39; pass D24, frame 2; pass A29, frame 3; pass A32, frame 47; pass A35, frame 2; pass D41, frame 158.
- 10. Static Electricity: A possible corona type static discharge fogs portions of the third frame of most passes after DO8. Small fog patches with striations recur every 6.3" from pass DO8 to pass D30 (with the exception of the first few frames of every pass) and intermittently thereafter, to the end of the mission. Edge static occurs intermittently on passes D24, A30, A35, D36, D41. Small possible static marks are present intermittently between the port and starboard horizon camera formats and the main format.
- 11. Pinholes: Few. 18 frames show scattered pinholes.
- 12. Abrasions and Scratches: Heavy rail scratches are present on both leading and trailing edges of the film. A camera induced scratch 1/8" in from the leading edge of the film readout pips, and approximately 5" from the supply edge of the main format recurs on every frame throughout the film. Small scratches occur on 20 scattered frames throughout. Numerous abrasions are found on pass D38, frames 1-75; pass D49, frames 25-36.
- 13. Tearing: No tearing is present, however a manufacturing splice occurs on pass D36, frame 97 and transparent splices occur on passes D05, D06, D36, A47.
- 14. Water Marks: Very few.



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- 15. Pressure Streaks: Small shiny emulsion rubs having no specific pattern occur intermittently throughout the film.
- 16. Processing Streaks: Plus and minus density streaks, possibly associated with processing, occur intermittently throughout the film. Thin minus density streaks are associated with areas of thin density. Minus density spots, some comet-shaped, occur on 18 scattered frames.
- 17. Blistering and Crimping: 36 small blisters occur throughout the film. Small crimps appear on approximately 27 scattered frames. Edge rippling occurs on pass D06, frame 107; pass D49, frames 25-36.
- 18. Contrast: Medium 80%, low 20%.
- 19. Apparent Resolution: Good. Acuity appears better than that of mission 9035, but does not achieve the quality observed on mission 9032. Very little difference can be seen between the forward and aft cameras of this mission.
- 20. Apparent Granularity: Fine.
- 21. Photo Quality:
 - a. Main Camera Good. Degradation is due to light leaks, possible static conditions, scratches and miscellaneous minor streaks and spots.
 - b. Horizon Cameras: Fair. Both horizon cameras are heavily overexposed and there is "blooming" present in one of the starboard camera fiducials.
- 22. Camera Operation:
 - a. Main Camera Good. The only apparent degradation would be due to the possible corona static effect that fogs portions of numerous frames.
 - Horizon Cameras Fair. Both horizon cameras are heavily overexposed.
- Suitability for PI: Good. Atmospheric conditions and fogging possibly caused by corona static are the only degrading factors.

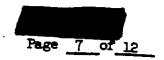
Remarks:

- 1. Plus density streaking is evident on several passes, emanating from dense imagery such as clouds, with streaking in the direction of film supply.
- The end-of-pass marker was double exposed on many passes, usually associated with a double exposure of the binary readout.
- 3. Small bits of emulsion have been pulled or lifted from approximately 51 frames scattered throughout the film.
- 4. Foreign matter, usually consisting of small bits of wax, lacquer, opaquing material from titling, and embedded dirt, occurs on approximately 75 frames.
- 5. Skiving and skiving marks are intermittent and of minor consequence.
- 6. Handling marks, fingerprints and cinch marks occur on 17 frames scattered through the film, usually on the first and last frames of passes.
- Vertical banding is present throughout pass DO9.
- 8. Enumerated below is the amount of overlap (in percent); the amount of film transport (in inches); and the linear distance not occupied by timing pips on the last frame of all passes (measured in inches from the supply end of the main format).



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		Overlap			Film Trans	port.	Pip Termination
							Supply Side
Pass		inning	Enc				pupply Bide
	Frame	Percent	Frame	Percent	First Frame	Last Frame	
DO1	5	NM	21	5	NM	15 .2 5"	8.25"
A03	20	0	22	í	NM	11.75"	8.80"
1003	3	2	55	8	NM	16.50"	
AO4	5 3 4	NM	53	7	NM	NM	8 .2 5"
DO 4	3	5	43	ģ	NM	17.20"	8.50"
D 05	4	ì	142	9 16	NM	18.50"	7.80"
D06	4	14	155	13	NM	18.75"	8.00"
D07	7	1	184	16	16.20"	18.50"	8.00"
DO 8	4	2	112	NM	NM	17.10"	8.00"
D09	4	1	90	10	NM	17.50"	8.40"
A13	6	1	55	NM	15.50"	11.20"	8.00"
A14		0	66	2	9.30"	10.90"	8.50"
A15	5 6	1	36	3	NM	10.90"	8.60"
D15	3	1	10	NM	NM	17.80"	8.50"
A16	3 7	1	50	. 5	NM		7.80"
A17		ī	96	5	8.70"	11.50" 12.20"	8.50"
A18	5 6	1	120	7	NM	13.00"	8.50"
D23	5	5	99	10	11.20"	17.40"	8.30"
D24	5 6	í	106	10	NM		8.00"
D2 5	5	NM	68	9	NM	15.20"	8.20"
A29	5	1	35	NM	11.20"	17.00" 14.80"	7.00"
A 30	ıí	1	85	5	NM		8.50"
A31	5	0	72	.5	10.10"	11.50"	8.50"
D31	Ĺ	4	17	.6	NM	11.20"	8.50"
A32	6	1	97	9 5 6	NM	18.00"	8.20"
A35		1	102	6	12.00"	11.70"	8.50"
D36	5 3 5	3	91	13	6.70"	13.30"	8.20"
D37	5	5	179	10	NM	18.30"	7.70"
D38	5	ó	169	11	NM	18.90"	7.70"
D41	4	2	59	8	NM	18.20"	7.80"
A47	13	ī	58	5	15.30"	17.30"	8.00"
D47	ĭ	7	17	NM	19.30 1MM	12.10"	8.40"
A48	8	ż	63	4	NM	18.50"	7. 7 0"
A49	9	ī	72	4	10.20"	12.40"	8.20"
D49	4	4	36	12	10.10	NM	8.40
-		•	J.	16	10.10	NM	NM

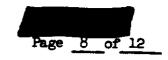
Note: NM denotes "not measurable"

9. Density readings were made on every pass using the MacBeth Quantalog Densitometer Model EP 1000 with an EP 20 attachment. Absolute values read for D Max and D Min as well as Gross Fog are correlated below.

Pass	Part	Frame	D Max	D Min	Gross Fog	Sun Angle*
D 01	1	14	1.84	0.26	0.00	
A03	1	21	1.90	O 2:1	0.09	
	2	91	1.06		0.11	
DO3	ī	15		0.25	0.11	
A04	1		1.98	0.29	0.08	
DO4	1	20	2.08	0.43	0.09	
	1	41	1.91	0.22	0.11	
D 05	1	15	1.93	0.26	0.09	
	2	81	1.97	0 .2 5	0.09	
_	3	141	1.76	0.18	0.09	
100 6	1	2 2	1.96	0.52	_	
	2	60	2.05	0.24	0.10	
	3	151	1.96		0.10	
D07	ĭ	20		0.19	0.10	
-01	2		1.96	0.27	0.09	
		118	1.90	0.27	0.09	
	3	173	1.91	0.20	0.09	
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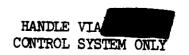
36

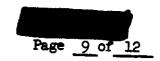


Pass	Part	Frame	D Max	D Min	Gross Fog	Sun Angle*
D 08	1	10	2.04	0.23	0.09	
	2	9 8	1.93	0.22	0.09	
D 09	1	12	1.90	0.18	0.09	
	2	80	1.97	0.30	0.10	
Al3	1	55	1.91	0.51	0.09	
A14	1	53	1.75	0.28	0.10	
A15	1	7	1.81	0.24	0.10	
	2	32	1.73	0.21	0.09	
D15	1	11	1.04	0.27	0.09	
A 16	1	40	1.83	0.21	0.10	
A17	1	_7	1.41	0.23	0.10	
0	2	80	1.83	0.86	0.08	
A18	1 2 3	15	1.99	0.40	0.14	
	2	88	1.74	0.16	0.09	
		114	1.83	0.41	0.09	
D23	1	15	1.87	0.33	0.09	
201	2	78	1.80	0.50	0.10	
D24	1	2	2.00	0.48	0.11	
7 0.5	2	99	1.75	0.36	0.09	
D25	1	16	1.94	0.39	0.11	
A29	1	27	1.87	0.44	0.08	
A30	1 2	28	1.56	0.18	0.11	
A31	1	79	1.86	0.55	0.08	
D31	1	33	1.72	0.16	0.10	
A32	1	16 44	1.92	0.24	0.11	
A35	1	44	1.92 1.84	0.30	0.12	
3/	5	40 97		0.23	0.10	
D36	ī	16	1.74 1.93	0.44 0.63	0.18	
- 3-	2	95	1.89	0.83	0.15	
D37	ī	7	1.96	0.75	0.19 0.21	
	2	92	1.96	0.52	0.26	
	3	168	1.84	0.38	0.23	
D3 8	1	71	2.08	0.64	0.28	
	2 3	120	1.95	0.53	0.23	
	3	159	1.65	0.61	0.21	
D +1	1	32	2.02	0.68	0.22	
A47	1	41	1.66	0.48	0.20	
D47	1	12	1.92	0.56	0.21	
84A	1	14	2.04	0.38	0.23	
A49	1	47	1.89	0.41	0.19	
D49	1	15	1.90	0.50	0.21	
A50		No	Take			

^{*} Sun angle data not published at this date. This information will be sent out in addendum to the Film Evaluation Report for Mission 9037.

Average D Max	1.85
Average D Min	0.37
Average Gross Fog	0.13
Range D Max	1.04 - 2.08
Range D Min	0.16 - 0.75
Overall Range	0.16 - 2.08
Range Gross Fog	0.08 - 0.28





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PART III - FRAMING CAMERA

Mission No: 9037

Camera No: 88

Camera Setting: F/6.3, 1/250

Second (Average)

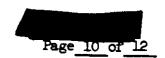
Filter: Wratten 21

Film Type: J-22

Evaluated By:

- 1. Shutter Operation: Shutter functions properly to pass DO7, frame 13. A possible total shutter malfunction then occurs, and no imagery can be discerned for the rest of the mission.
- 2. Exposure: All frames indicate good exposure.
- 3. Camera Number: Good.
- 4. Film Metering: Slightly erratic metering occurs, varying from 0.16 to 0.30 inches.
- 5. Film Tracking: Good.
- 6. Grid: Grid lines are sharp and distinct. Foreign material adhering to the grid obscures a small portion of imagery between grid lines 8, 9 from the camera number edge, and lines 7-11 from the take-up side of the format, continuously throughout the film.
- 7. Flare: A "hot spot" exists near the center of frames 1, 18, 40 and 83. These frames correspond to the first or last frame of some passes.
- 8. Light Leaks: A thin curved double-line light leak emanating from the edge of the film occurs on frames 10, 18, 26, 32, 52, 57, 66 and 75. No apparent pattern is discernible. Edge fog is present intermittently along the edge opposite the camera number.
- 9. Static Electricity: Two parallel lines of static electricity 0.4" apart, the first being 0.8" from the titled edge, run continuously from preflight to the end of the mission. Intermittent static occurs randomly throughout the film.
- 10. Pinholes: Very few.
- 11. Abrasions and Scratches: Numerous base abrasions and scratches occur in a continuous fashion throughout the film, due mainly to film handling after the material left the processing site.
- 12. Tearing: None present.
- 13. Pressure Streaks: Small shiny base rubs are present scattered randomly throughout the film.
- 14. Contrast: Image contrast is low, absolute contrast varies from medium to high.
- 15. Apparent Resolution: Good.
- 16. Apparent Granularity: Slightly grainy.
- 17. Photo Quality: Fair until shutter malfunction. Degradation is due to foreign material on the grid plate, and static electricity.
- 18. Camera Operation: Poor. Degradation is due to shutter malfunction, static electricity and foreign matter on grid plate.





- 19. Suitability for PI: Fair until shutter malfunction. Degradation is due mainly to atmospheric conditions.
- 20. Fingerprints, as a result of film handling after material left processing site, occurs intermittently.
- 21. Opaquing on the frame number 67 did not adhere properly, rendering the number difficult to read.
- 22. Density readings made on selected frames using the MacBeth Quantalog Densitometer Model EP 1000 with an EP 20 attachment and a 0.5 mm aperture, are recorded below.

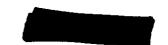
Frame	D Max (Terrain)	D Min (Terrain)	<u>D Max</u> (<u>Absolute</u>)	D Min (Absolute)	Fog and/or Degradation
1 5 10 15 20 25 30 35 45 50 55 60 75 80 85	(Terrain) 0.72 0.88 Heavy 0.70 0.90 Heavy Heavy 1.10 1.22 1.18 0.98 0.90 0.80 1.72 0.97	O.48 O.30 Clouds O.53 Clouds Clouds Clouds Clouds O.32 O.30 O.54 O.48 O.44 O.68 O.36 O.63 O.47	(Absolute) 2.97 No Clo 2.50 2.75 2.96 2.76 2.70 2.82 2.62 2.86 2.94 3.00 2.62 2.82 3.04 Light C	(Absolute) 0.23 ouds 0.49 0.22 0.35 0.90 0.45 0.80 0.20 0.18 0.22 0.16 0.40 0.18 0.28	None None None None None None None None
90		0.56 Clouds	2.42 2.68	0.22 0.54	None None
95	1.06	0.64	2.28	NM	None

Note: NM denotes "not measurable"

\$ 30 miles



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Page 11 of 12

PART IV - VEHICLE ATTITUDE DATA

D01	Pass	Pitch Variation	Pitch Range	Roll Variation	Roll Range	No. of Frames
A03		-	0 1	0 1 0 1		
103 13 50 13 37 0 13 +0 29 -0 31 1 00 102 104 13 46 13 31 0 15 -0 19 -0 48 0 29 53 A04 13 46 13 31 0 15 -0 19 -0 48 0 29 53 D05 14 17 13 10 1 07 +0 50 -0 40 1 30 145 D06 13 41 13 30 0 11 +0 25 -0 56 1 21 30 145 D07 14 09 13 13 07 0 57 +0 45 -0 29 1 14 59 D08 14 18 13 18 1 0 0 +0 39 -0 04 0 13 67 D07 14 09 13 13 18 1 17 +0 08 -0 59 1 07 A13 14 91 13 12 0 37 +0 04 -0 34 0 57 A14 13 49 13 12 0 37 +0 04 -0 04 -0 09 1 15 A15 14 17 13 46 0 31 -0 04 -0 09 0 05 A16 14 18 13 38 0 0 37 +0 04 -0 09 0 05 A17 13 53 13 13 13 0 40 0 58 +0 47 -0 29 1 16 A17 13 53 13 13 13 0 40 0 58 +0 47 -0 29 1 16 A18 14 10 13 38 0 26 +0 38 -0 38 1 12 B23 14 18 14 10 13 38 0 26 +0 38 -0 38 1 12 B24 14 15 15 15 15 15 15 15 15 15 15 15 15 15					0 35	20
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D05						53
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14 03 13 03 1 00 +0 39 -0 04 0 13 67 107 14 09 13 43 0 26 +0 31 -0 27 0 58 184 108 14 18 13 18 1 00 +0 25 -0 50 1 15 110 14 18 13 18 1 00 +0 25 -0 50 1 15 111 111 A13 14 09 13 10 0 59 +0 23 -0 34 0 57 A14 13 49 13 12 0 37 +0 04 -0 43 0 47 A15 14 17 13 46 0 31 -0 04 -0 43 0 57 A16 14 06 12 59 1 07 +0 32 -0 019 0 55 A17 13 53 13 13 10 0 40 -0 16 -1 14 0 58 28 A18 14 20 13 36 1 14 0 29 -0 38 1 12 31 A18 14 20 13 36 0 26 +0 34 -0 38 1 12 31 B23 14 18 14 04 0 14 +0 29 -0 34 0 57 A29 13 51 13 16 0 37 +1 10 -1 47 2 577 44 11 13 45 12 46 1 59 +0 18 -0 34 0 52 A29 13 51 13 16 0 35 +0 05 -0 27 0 38 34 A30 14 27 13 25 1 0 0 0 58 +0 05 -0 27 0 38 34 A30 14 27 13 25 1 0 0 0 58 +0 05 -0 27 0 38 34 A31 14 33 13 08 0 26 +0 34 0 52 109 A29 13 51 13 16 0 35 +0 05 -0 27 0 38 34 A30 14 27 13 25 1 0 0 0 58 +0 05 -0 27 0 38 34 A31 14 33 13 14 09 0 24 +0 28 -0 37 1 1 07 17 48 B24 13 45 12 26 0 09 +0 18 -0 34 0 52 109 A29 13 51 13 16 0 35 +0 05 -0 27 0 38 34 A30 14 27 13 25 1 0 0 0 58 +0 05 -0 27 0 38 34 A31 14 33 13 14 09 0 24 +0 28 -0 37 1 1 05 15 17 A31 13 38 13 22 0 0 26 -0 25 -0 40 0 0 15 17 A32 14 10 13 15 0 0 55 +0 38 -0 39 1 17 A33 13 31 10 0 2 +0 03 -0 57 1 0 0 33 69 B34 14 16 13 48 13 22 0 0 26 -0 25 -0 40 0 0 15 17 A31 14 18 13 17 1 0 1 +0 27 -1 19 1 46 119 B34 14 18 13 17 1 0 1 +0 27 -1 19 1 46 119 B34 14 18 13 17 1 0 1 +0 27 -1 19 1 46 119 B49 13 54 13 13 17 0 18 +0 40 +0 03 -0 05 52 59 B48 14 18 13 17 1 0 1 +0 27 -1 19 1 46 119 B49 13 54 13 13 10 0 18 +0 40 +0 03 1 0 09 17 B49 13 54 13 13 17 0 0 18 +0 40 +0 03 1 0 09 17 B49 13 54 13 13 17 0 0 18 +0 40 +0 03 1 0 09 17 B49 13 54 13 17 10 10 +0 27 -1 19 1 46 119 B49 14 38 13 07 1 31 -0 02 -0 04 +5 0 04 +5 0 04 +5 0 04 +5 0 04 +5 0 04 +5 0 04 +5 0 04 +5 0 04 +5 0 04 +5 0 04 +5 0 04 +5 0 04 +5 0 04 +5 0 04 +5 0 04 +5 0 04 +5 0 04 +5 0 04 +5 0 04 +5 0 04 +5 0 04 +5 0 04 +5 0 04 +5 0 04 +5 0 04 +5 0 04 +5 0 04 +5 0 04 +5 0 04 +5 0 04 +5 0 04 +5 0 04 +5 0 04 +5 0 04 +5 0 04 +5 0 04 +5 0 04 +5 0 04 +5 0 04 +5 0 04 +5 0 04 +5 0 04 +5 0 04 +5	D06					
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A31			• • •	- - ,		34
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A32 14 10 13 15 0 55 +0 38 -0 39 1 17 48 A35 14 00 13 04 0 56 +0 15 -1 07 1 22 58 14 16 13 48 0 28 +0 24 -0 56 1 26 43 D36 14 19 13 14 1 05 +0 48 -1 01 1 49 98 14 21 13 02 1 19 +0 16 -0 17 0 33 69 14 22 13 25 0 57 +0 30 -1 29 1 59 80 14 18 13 17 1 01 +0 27 -1 19 1 46 D41 13 59 12 58 1 01 +0 13 -0 12 0 25 59 D47 14 04 13 13 0 49 -0 90 -0 52 0 52 58 A48 14 18 13 07 1 31 +0 02 +0 45 0 47 63 D49 13 54 13 17 0 37 +0 36 -0 37 A50 14 10 13 35 0 25 0 57	Day		0 09			
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D36				• • • • • • • • • • • • • • • • • • • •	1 17	
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14 21 13 02 1 19 +0 16 -0 17 0 33 69 14 22 13 25 0 57 +0 30 -1 29 1 59 80 14 18 13 17 1 01 +0 27 -1 19 1 46 119 A47 14 04 13 13 0 49 -0 90 -0 52 0 52 D47 14 02 13 44 0 18 +0 40 +0 31 0 09 A48 14 18 13 07 1 31 -0 02 -0 45 A49 14 38 13 07 1 31 -0 02 -0 45 A50 14 10 13 35	D36	14 19 13 14	1 05		1 26	43
A48	D37	¹⁴ 33 13 31	1 02			98 98
A48		14 21 13 02	1 19	+0 16 -0 17		29 60
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A48	D41	13 59 12 58	1 01	+0 27 -1 19	1 46	119
A48	A47	14 04 13 13	0 70	+0 13 -0 12 -0 90 -0 50	0 25	59
A48	D47	14 02 13 44	0 18	+0 40 +0 31	0 52	58 17
D49 13 54 13 17 0 37 +0 36 -0 37 1 13 57	A48	14 18 13 09	1 09	-0 10 -0 57		17 63
A50 14 10 13 35 0 25 10 10 37 1 13 57	M49 Muo		1 31	-0 02 -0 45	0 43	03 79
25 -0 43 -0 45 0 02 03	A50		0 37	+0 36 -0 37		57
	· - / -	10 13 37	0 25	-0 43 -0 45	0 02	03



Page 12 of 12

MISSION 0037 - DENSITY CHART

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