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FROM L. Schappell/P. Scheiner

AT Burlington

COPY TO

SUBJECT RESULTS OF STEAMING TESTS ON 1755 LATEX IN
DISPERSION STRIPPERS - ESR 499 (LOP 1155)

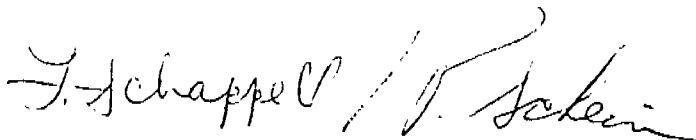
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The attached conclusions and data summarize the results of direct steam injection into Dispersion Stripper # 4 to heat 1755 latex thereby facilitating VCM removal.

The test work represents the first time direct steaming of latex has been achieved without any apparent affect on filtration. Direct steam heating of latex has been shown to facilitate stripping of batches to meet EPA requirements thereby substantially reducing the impact on productivity. Runs at high temperature (135-140°F) have shown that 2,000 ppm level can be achieved without the use of nitrogen (See Fig. 1). Conclusions based on these runs are summarized in the attached.

Further evaluation of the direct steaming/stripping procedure on other products are necessary to determine the following:

1. Are any of the resin types heat sensitive at temperatures up to 140°F?
2. Will steaming affect the properties of the finished products?
3. Will nitrogen sparge be necessary to reach 2,000 PPM?
4. Will a steaming/stripping technique reach 500 PPM levels in a reasonable cycle time?



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LS/PS/ib
Attachment

CONCLUSIONS

1. Direct steaming after initial recovery has been completed does not affect the filterability of 1755 latex.
2. Questionable filterability results from heat-up prior to recovery.
3. Latex temperatures as high as 140°F. were obtained by direct steaming of latex without affecting filterability.
4. A latex heat-up as high as 32°F. (from 108°F. to 140°F.) was attained.
5. Substantial VCM removal results from heat-up of latex. More than 50% VCM reduction during 1 hour of heat-up (without nitrogen) was experienced.
6. Levels of less than 2000 PPM were reached, in some cases, without the use of nitrogen sparge.

FIG 1

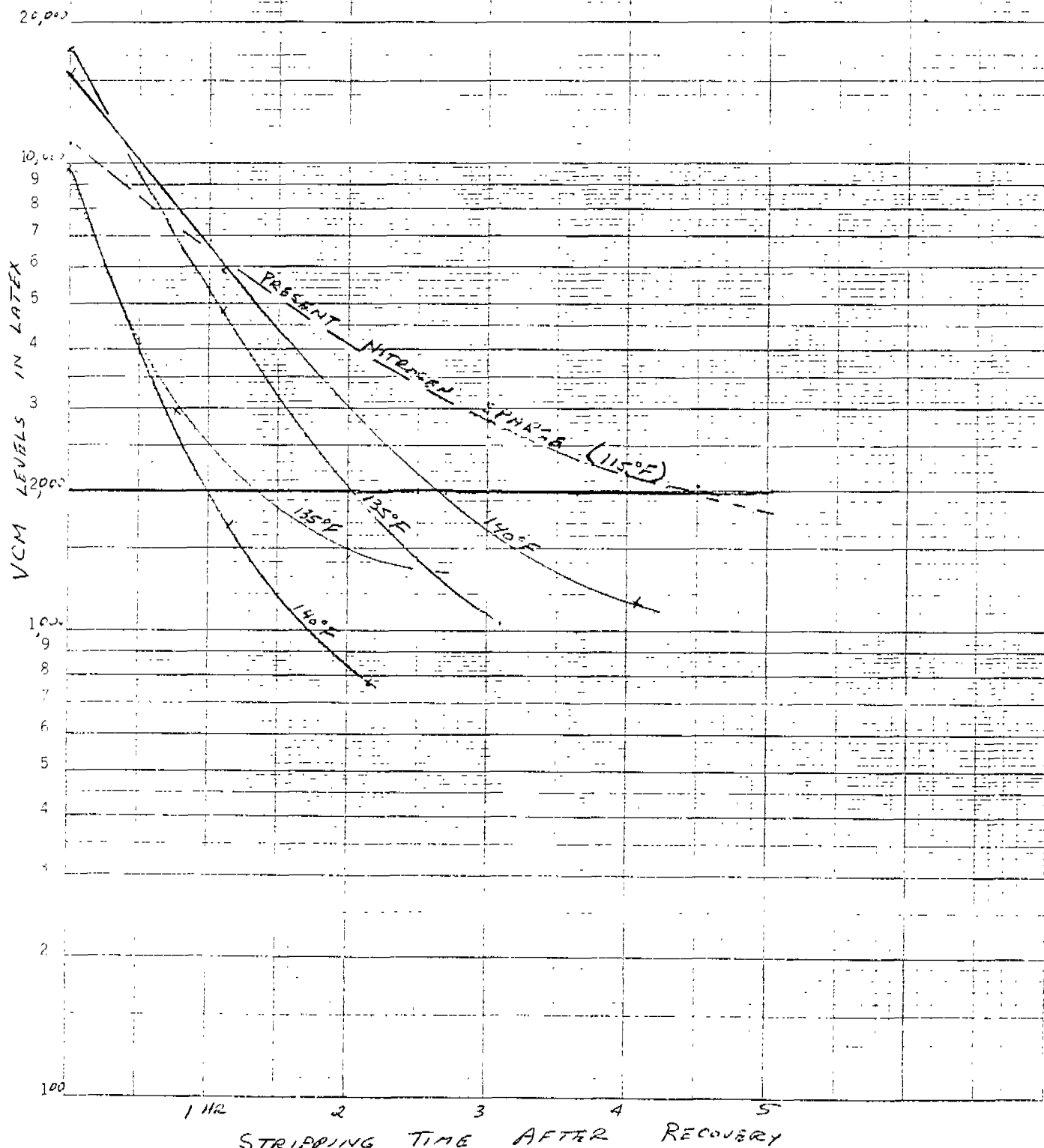
STRIPPER STEAMING

DISPERSION STRIPPING - NO NITROGEN

1755 PRODUCT

46 5490

SEMI-CARBONITRILIC • J CYCLES X 70 DPA 31 347
KEUFFEL & ESSER CO. MADE IN U.S.A.



COLORITE 018589

1755 STEAM HEATING RUNS

<u>F FILTRATION</u>		<u>VINYL</u>	<u>CHLORIDE</u>	<u>LEVELS</u>	<u>COMMENTS</u>
<u>MOISTURE</u>		<u>RECOVERY</u>	<u>AFTER</u>	<u>VCM LEVEL</u>	
<u>ORE</u>	<u>AFTER</u>	<u>PPM</u>	<u>STEAM</u>	<u>@ TIME</u>	
<u>AM</u>	<u>STEAM</u>		<u>PPM</u>	<u>AFTER</u> <u>STEAM</u>	
-	21.7				First run no data taken.
0	24.7				
0	29.7	15,166	5,435		Hvy foaming throughout recovery.
5	22.9	12,630	4,660		Hvy foaming.
1	22.4	17,701	8,533	6731 @ 1 HR.	Hvy foam, defoamer plugged, questionable evacuation.
9	31.7	9,760	2,950	1380 @ 2 HRS.	No N ₂ flow - plugged line, tower steamed during recovery.
1	30.4	17,430	4,790	1016 @ 2 HRS.	No N ₂ flow - plugged line.
5	23.2	9,727	1,656	767 @ 1 HR.; 130 @ 3 HRS.	Tower steamed during recovery. Recovery extended one hour beyond steaming - 2 HRS of Nitrogen.
5	23.1	15,560	5,850	2860 @ 1 HR.; 1165 @ 3 HRS.	No Nitrogen during run.
-	24.0				
-	38.4				Temperature drifted to 138°F after steaming.
-	30.0				Temperature drifted to 132°F after steaming.

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