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NOVEMBER 27, 1946

To: File

From: W. K. Woods

SUMMARY OF BLISTERING INSPECTIONS

The attached table, prepared by J. C. L. Chatton, summarizes all the information on blistered slugs from March, 1946 to October 12, 1946, as recorded in the Weekly Technical Progress Letters. In some instances unreported exposure data have been added to the table. Information obtained prior to March, 1946, has been summarized in Document No. 7-3737, "Review of Blistered Slug Investigations", P. A. Dahlen to File, March 19, 1946.

It should be noted that no absolute measure of degree of blistering has been developed. In consequence, tubes examined during the early part of the study probably contained a significant number of slugs which were slightly blistered but which were not detected by the inexperienced inspectors.

The data in the table reveal that there are 8 tubes in the 10-40 MD range which have an average of 5 blistered slugs per tube; 31 tubes in the 40-50 MD range with an average of 3 blistered slugs per tube; 34 tubes in the 50-60 MD range with an average of 6 blistered slugs per tube; and 7 tubes in the 60-75 MD range with an average of 24 blistered slugs per tube.

W. K. Woods
W. K. Woods

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SUMMARY OF BLISTERING INSPECTIONS

Reference: 100 Areas - Technical Progress Letters.
Letters No. 89 (3-12-46) through No. 119 (10-12-46).

Tube Number	Discharge Date	MVD	Exposure Time In Days	No Badly Blistered	Total Number Blistered	Notes
8 Tubes at B	3-6-46	56-59	-	0	19	(1)
0572B	3-46	45.8	537	0	0	
0575B	3-46	45.8	537	0	2	
0668B	3-46	46.0	537	0	0	
0678B	3-46	47.2	537	0	1	
0782B	3-46	45.8	537	0	6	
1063B	3-46	56.4	537	0	8	
1084B	3-46	56.4	537	0	9	
1159B	3-46	46.8	537	0	8	
1161B	3-46	58.2	537	0	16	
1188B	3-46	46.8	537	0	4	
1274B	3-46	58.9	372	0	9	
1358B	3-46	47.0	537	0	8	
1360B	3-46	56.4	537	0	17	
1371B	3-46	59.4	372	0	15	
1376B	3-46	59.4	372	0	12	
1387B	3-46	56.4	537	0	3	
1389B	3-46	47.0	537	0	16	
1468B	3-46	59.4	372	0	14	
1470B	3-46	60.0	372	0	14	
1471B	3-46	60.1	372	0	14	
1476B	3-46	60.1	372	0	10	
1657B	3-46	45.8	537	0	4	
1590B	3-46	45.8	537	0	6	
1866B	3-46	46.0	537	0	2	
1858B	3-46	55.6	537	0	3	
1891B	3-46	46.0	537	0	2	
1956B	3-46	47.2	537	0	0	
1973B	3-46	37.1	247	0	2	
1991B	3-46	47.2	537	0	4	
2257B	3-46	56.6	537	0	3	
2290B	3-46	56.6	537	0	3	
2355B	3-46	47.1	537	0	7	
2357B	3-46	57.7	537	0	6	
2390B	3-46	57.7	537	0	7	
2392B	3-46	47.1	537	0	9	
2465B	3-46	47.1	537	0	0	
2555B	3-46	45.8	537	0	0	
2592B	3-46	45.8	537	0	5	
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Table Cont'd.

Tube Number	Discharge Date	MWD	Exposure Time In Days	No Badly Blistered	Total Number Blistered	Notes
2956B	3-46	46.0	537	0	0	
2991B	3-46	46.0	537	0	0	
3159B	3-46	58.7	537	0	0	
3290B	3-46	45.8	537	0	0	
3368B	3-46	59.4	372	0	7	
3379B	3-46	59.4	372	0	4	
3471B	3-46	59.4	372	0	8	
3472B	3-46	59.6	372	0	10	
3475B	3-46	59.6	372	0	0	
3476B	3-46	59.4	372	0	7	
4082B	3-46	45.8	537	0	7	
4168B	3-46	46.0	537	0	8	
4276B	3-46	45.8	537	0	0	
1889F	4-18-46	25.5	-	0	1	(3)
2692D	5-7-46	26.4	-	0	0	(4)
4 Tubes D	5-21-46	48	-	0	0	(5)
2874D	6-25-46	55	-	0	1	
2063D	7-9-46	14	-	0	1	Cast Material
2363F	7-3-46	11	-	0	1	Cast Material
1674D	7-23-46	56	341	0	3	
2478D	7-23-46	57	348	0	0	
2163D	8-8-46	18	-	0	3	Cast Material
2573B	8-8-46	46	445	0	5	(6)
2461D	8-13-46	55	341	0	7	(7)
2382F	8-14-46	54	-	0	3	(8)
2083D	9-17-46	25	161	0	20	Cast Material
2382D	9-17-46	63	383	4	32	(9)
0874F	9-18-46	89	570	2	35	(10)
1286F	9-18-46	74	570	0	27	(10)
1074F	9-25-46	25	-	1	18	
2491F	9-25-46	69	577	9	35	(10)

NOTES.

- 1 - Eight overage tubes discharged - No blistered slugs in four tubes, two blistered in each of two tubes, seven blistered in one tube, and eight blistered in the last tube.
- 2 - None of the six hottest slugs were blistered. Discharged 3-17-46.
- 3 - Tube difficult to discharge - fifteen pieces examined. One found blistered with evidence of abrasion.

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- 4 - One bowed piece with evidence of abrasion - Difficult to discharge. Borescopic examination of tube located spot where bowed slug had rested - about twenty feet from upstream nozzle. Slug ends bowed upwards sufficiently to mark tube. Abrasion of tube evident downstream from spot.
- 5 - Two tubes overage pressure drop - two tubes overage corrosion.
- 6 - Pieces No. 2-12-17-19-20 from upstream end were slightly blistered.
- 7 - Pieces No. 8, 9, 10, 16, 17, 24, 25 from upstream end were slightly blistered.
- 8 - Pieces numbered 13, 24, 26 from upstream end slightly blistered. Piece in Position No. 13 warped over entire length.
- 9 - Several badly blistered pieces and one warped piece.
- 10 - Tubes contained many blistered pieces but no unusual abrasions found.

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