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UNDERHILL 6-3311

December 14, 1962

Dr. R. L. Spaulding
Los Alamos Scientific Laboratory
University of California
Post Office Box 1663
Los Alamos, New Mexico

Attention: Mr. J. L. Tucker

Subject: QEP 116, Phase 1, Stockpile Sampling Program Supplement

Reference: (1) CRD letter dated July 26, 1962, R. L. Spaulding to J. R. Easter, subject: "QEP 116 Stockpile Sampling Program, Phase 1. Detonator Inspection Instructions."

(2) Telephone conversation between J. L. Tucker of LASL and J. H. Geis of Mound on November 27, 1962.

Dear Sir:

Enclosed with this letter is the Supplement Report for the QEP 116 Stockpile Sampling Program. We trust this is the information required.

If you have any questions regarding this material, please feel free to call on us.

Very truly yours,

John R. Easter

John R. Easter
Inspection Supervisor

JRE/cje
Enclosure

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THIS DOCUMENT CONSIST OF 5 PAGES

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MOUND LABORATORY PARTICIPATION
SURVEILLANCE INSPECTION SUPPLEMENT REPORT
MK 54 STOCKPILE SAMPLING PROGRAM

MOUND LABORATORY-MONSANTO

Central File No. 62-12-186

MOUND DECLASSIFICATION REVIEW	
1ST REVIEW-DATE: 9/10/98	DETERMINATION (CIRCLE NUMBER)
AUTHORITY: ☐AOC ☒ADC ☐ADD	1. CLASSIFICATION RETAINED
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2ND REVIEW-DATE: 1/7/99	3. CONTAINS NO DOE CLASSIFIED INFO
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Classification changed to CG-WD-3, L. V. Jones by authority of Martha M. Haney 10/9/78 by

by

Joseph H. Geis

Approved by

John R. Easter

John R. Easter

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JHG:mle
November 30, 1962

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Attn: Mr. J. L. Tucker

2A - Mr. J. R. Easter, Mound Laboratory

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GUARD SPRING INSPECTION

Forty-two guard springs and nineteen sponge pads were received from Medina along with the detonators as part of the Mk 54 Phase 1 Stockpile Sampling Program.

The springs were inspected visually and gaged for displacement with respect to the force applied parallel to the axis of rotation. A Hunter Mechanical Force Gage Model D-150-M Starrett #25-134 Mound Gage #M-61-812 was used. This gage is used to measure the springs for the 1E26 C detonators.

All of the springs appeared to be in good condition. The spring of W/H 88611 had a relatively high displacement for forces forty pounds and over, and was greater by more than three sigma than the average values for all the springs. This appeared to be due to the smaller than normal radii of the bends in the ID of the annulus. It appears that they all would have performed as designed within the desired confidence limits had they been called on to do so.

Nineteen pads accompanied the springs. Most of the pads had large patches pulled out of them and many were in pieces. A few were completely intact. No other inspection was made to test the pads.

Included in this report is a tabulation of values found for seven levels of force of all springs along with a graph showing the average and extreme values for each force level along with the standard deviation for each sample level. Those units with all or portions of the pad are marked in this tabulation.

SPRING, GUARD

DISPLACEMENT VS FORCE

W/H	Displacement - Inch X 10^{-4} / Force - Pounds							Sponge Pads
	5	10	20	30	40	55	80	
19068	42	76	148	229	266	300	355	X
39329	46	82	151	240	281	311	361	X
41504	41	72	142	223	260	292	342	X
41621	67	99	171	252	282	315	366	X
44385	30	65	123	201	266	299	346	
44754	64	95	164	244	281	312	364	X
63889	46	80	152	239	275	307	358	X
64335	44	76	148	230	278	308	361	X
65805	55	90	158	243	285	316	370	X
66196	55	88	159	244	283	315	368	
66338	53	83	143	215	286	326	375	X
68036	43	76	145	234	274	304	354	X
68096	49	83	150	234	276	305	356	
70573	40	73	130	202	280	316	362	
71045	47	78	141	216	280	313	362	
71734	29	57	119	194	260	293	341	X
72681	43	73	134	207	268	305	352	
74781	53	82	146	223	279	320	370	X
75444	43	75	138	212	284	311	359	X
75475	40	71	133	206	276	309	355	
77900	26	55	114	188	256	287	331	X
79040	50	85	160	236	272	307	363	

W/H	5	10	20	30	40	55	80	Sponge Pads
80977	46	76	138	211	280	310	358	
82935	36	71	142	228	283	316	368	
83574	50	81	143	215	280	324	371	
83584	34	63	124	200	276	310	356	
84058	35	68	129	204	268	299	346	X
87631	35	66	129	210	270	303	349	
88611	34	70	143	234	335	378	450	
88621	49	82	151	232	270	299	349	X
91204	37	66	126	200	274	309	354	
91503	26	56	120	192	250	298	346	X
93199	32	63	122	196	369	306	356	
93227	36	64	126	201	274	306	353	X
93824	63	90	155	214	248	278	325	
97776	44	76	149	233	265	297	350	
97840	26	56	117	190	258	293	339	X
98214	40	73	134	208	264	299	346	
98233	40	75	132	204	270	313	359	
99494	41	72	135	209	285	324	374	
99536	38	68	129	203	280	310	357	
99896	42	74	135	212	276	309	358	
$\bar{X}$	42.62	74.38	139.24	216.86	274.36	308,38	357.98	
σ	9.7	10.2	13.5	15.2	13.3	14.6	18.0	
Max	67	99	171	252	335	378	450	
Min	26	55	114	188	248	278	325	
Range	41	44	37	66	87	100	125	

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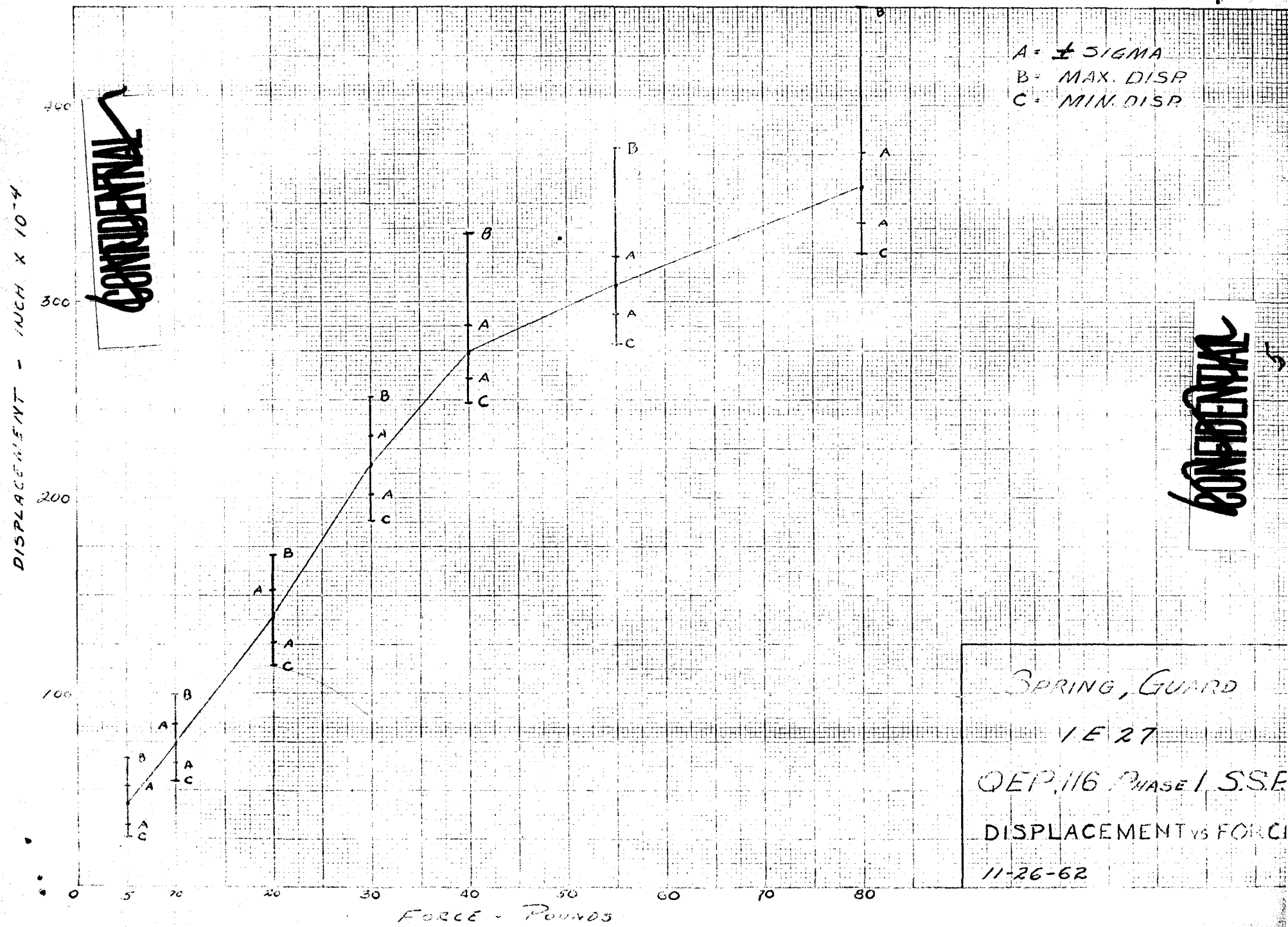

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