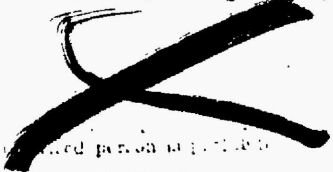


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**SANDIA CORPORATION**  
SANDIA BASE, ALBUQUERQUE, N. M.



Ref. Sys: 5110 (100)

RG 326 US ATOMIC ENERGY COMMISSION

Location SNL Roll #1382

Collection CENTRAL Tech. Files

Folder 0-1 IVY  
(3RD Folder)

Air Force Cambridge Research Center  
230 Albany Street  
Cambridge 39, Massachusetts

Attention: Miss Edna Ruth Bargfield

For: Mr. Norman A. Haskell

Subject: Preliminary Data on IVY Air Shocks

Enclosed are subject data taken by the Sandia Corporation group and supplied with the hope that you may employ these results meaningfully in preparing your reports and interpreting your data.

Arrival times to specified (ground level, not slant) distances are probably as accurate now as they ever will be. Peak overpressure values and durations of positive phases may get slightly different final values after we have the opportunity of reviewing the played-back records more closely.

On the King shot you will note quite large differences between data taken on the gages placed over the reef (so-called "water line") and over land. There was evidently a good "precursor" of the type described in WT-501.

CLASSIFICATION CANCELLED  
BY AUTHORITY OF DDC/SG  
*Central Tech Files*  
EVERETT  
*Diary 3/15/89*

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Everett F. Cox, Manager  
Weapons Effects Department

EFC:es

DISTRIBUTION:

- 1/5A - Mr. N. A. Haskell, AF Cambridge Research Center
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1-550

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CDL No.	
ACCOUNTABILITY CARD	<input checked="" type="checkbox"/>
FILE No.	<u>0-1</u> <i>Diary</i>

**INVENTORIED**

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2510 JAN 8 '54

CENTRAL M & R CONTROL NO. Q

516

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DEC 1 1962

MIKE SHOT

Ref. Symb 5110 (100)

Island	Station	Distance (ft)	Peak (psi)	Arrival Time (sec)	T + (sec)	Type of gauge	Notes
Bogon	615.02	8,250		1.379			
Engabi	611.01	15,900	17.46	5.18	3.81	SOB	31
			20.26	5.18	3.91	PS	
Muzin	612.02	21,412	12.10	7.70	5.96	SOB	
			12.27	8.81	5.85	PS	
Aomon	611.04	47,574	2.68	28.86	8.86	SOB	
			2.60 <sup>a</sup>	28.87	9.53	PS	
Runit	613.02	74,884	1.32 <sup>a</sup>	51.19	12.73	SOB	0.72 sec rise time
			1.24 <sup>a</sup>	51.19	12.87	PS	0.76 sec rise time
Parry	612.01	114,240	0.46 <sup>a</sup>	83.27	15.51	SOB	1.6 sec rise time
			0.66 <sup>a</sup>	83.32	14.50	PS	1.55 sec rise time

USS Estes  
185,400

145

<sup>a</sup>Value taken from Brush record; all other P<sub>max</sub> taken from IBM  
SOB - side-on baffle; PS - pitot tube

KING SHOT BEST AVAILABLE COPY

	Water Line	Ground Distance (ft)				
Runit	617.01	3,034	88.85	0.880		
	617.02	3,533	64.60	0.965		
	617.03	4,531	40.59	1.420	1.05	
	617.04	5,531	24.57	1.930	1.11	
	617.05	6,530	19.83	2.515	1.67	
	617.06	7,529	15.44 <sup>a</sup>	3.130		
	617.07	10,529	7.10	5.190	1.95	
Parry	617.08	15,494	3.75	8.970	3.05	
	612.02	55,132	0.33	38.76	5.05	
Runit	6101.01	3,458	62.31	0.800	1.23	
	6101.02	5,490	16.26	1.755	1.54	
	6101.03	7,502	11.36 <sup>a</sup>	3.080	1.76	
	6101.04	10,188	8.54	4.940	1.95	

Gauge broke off  
Gauge broke off

Cable broke

T (main shock) = 0.96  
T (max) = 1.01  
T (main shock) = 1.845  
T (max) = 1.925  
Wave starting to clean up  
T (max) = 3.22  
0.04 sec rise time  
Initial pressure

<sup>a</sup>Value taken from Brush record instead of IBM

