

For H. L. Anderson

NO. [REDACTED] OF [REDACTED] SERIES 4

A-84-019  
57-5

Survey of Ground Activity on Feb. 8th After Rala Shot

CLASSIFICATION CANCELLED

PER DOC REVIEW JAN. 1973

The shot was fired at 1:00 A.M. on February 8. The ionization produced by the active material was measured and found to be .475 r/hr at a distance of 75 feet at 12:25 A.M. This corresponds to an activity of 296 curies.

RECEIVED  
NOV 30 1993  
OSTI

We surveyed the site between 10:45 A.M. and noon on February 8. Readings were taken at various distances in directions approximately north, south, east, and west of the shot. The r-meter used had only one operable scale, reading from 0 to 50 units. By comparison with a calibrated meter belonging to Rossi's group, we found that full scale corresponded very nearly to 0.09 r/hour. We used the meter in three positions: (a) at chest height, (b) 6" above ground, (c) 6" above ground but with top, front, and sides of the ionization chamber shielded by 1" of lead. A sketch of the area is appended, with locations identified by letters A, B, C, etc. The readings of the meter, and the corresponding ionization at the various locations are tabulated below.

Direction	Reading	Distance	Ionization					
			At Ground		At ground with Lead		At chest level	
			Meter	mr/hr	Meter	mr/hr	Meter	mr/hr
	A	29'	-	-	60	113	-	-
	B	38'	-	-	24	40	-	-
E	C	50'	36	63 <sup>18</sup>	16	26 <sup>18</sup>	51	95
	D	62'	18	30 <sup>8.4</sup>	9	13 <sup>4.6</sup>	26	44
	E	75'	11	17 <sup>4.8</sup>	6	7 <sup>2.2</sup>	18	30
	F	90'	8	11 <sup>3.1</sup>	5	4 <sup>1.2</sup>	13	21
	G	45'	-	-	41	73	-	-
S	H	60'	60	115	21	35	-	-
	I	72'	23	39	9	13	34	59
	J	90'	13	21	6	7	21	35
	K	60'	-	-	50	92	-	-
W	L	75'	50	100	24	40	-	-
	M	95'	14	23	6	7	27	46
	N	56'	50	100	29	49	-	-
N	O	60'	50	92	25	42	-	-
	P	75'	40	71	25	42	50	100
	Q	90'	21	35	9	13	32	55
	R	105'	14	23	6	7	19	31

2197 0197

VERIFIED UNCLASSIFIED  
LANL Classification Group  
*Susan Roth 6/18/98*

FINAL DETERMINATION  
UNCLASSIFIED  
L. M. Redman  
JAN 14, 1981

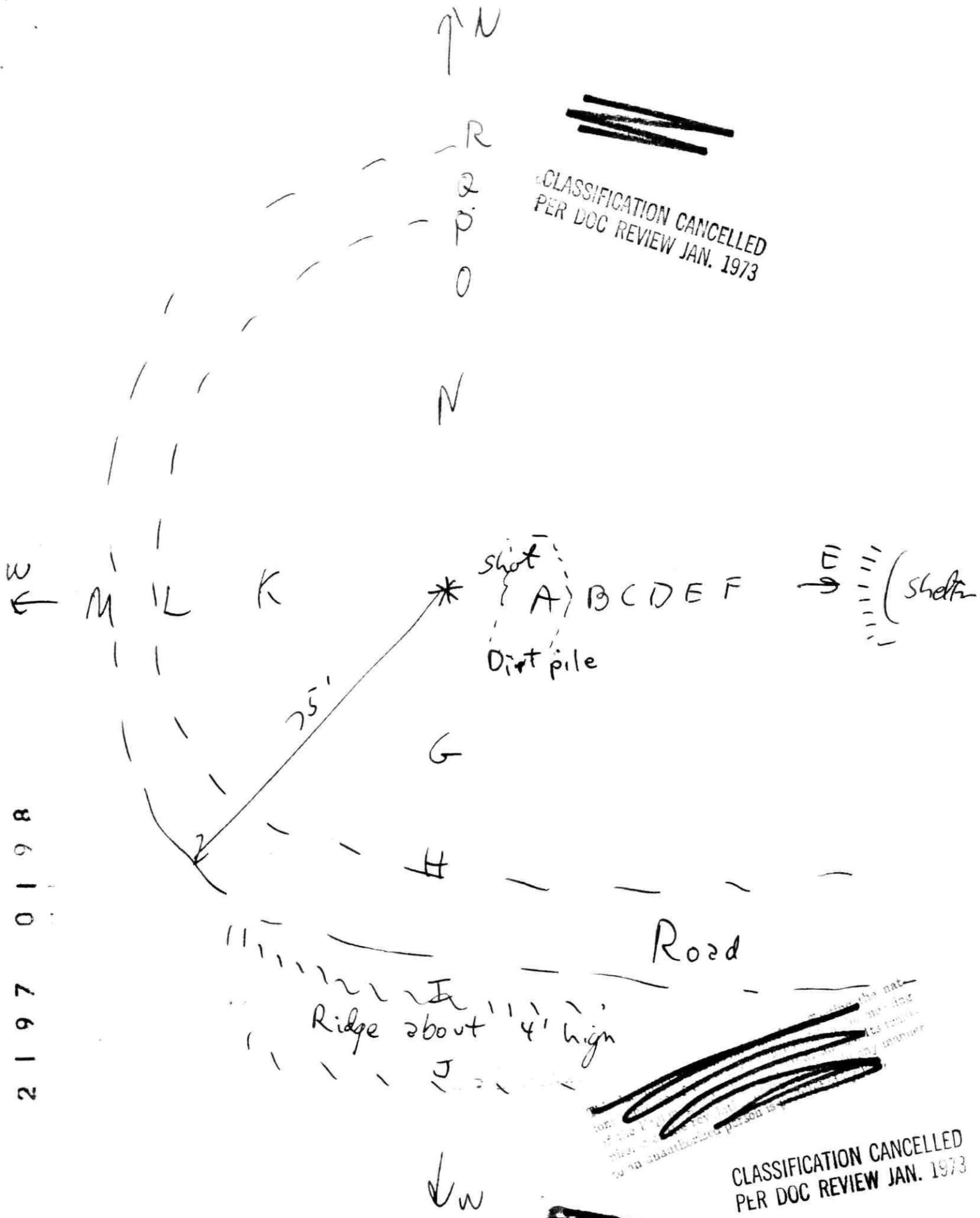
P. E. Moon  
D. L. Anderson

This document contains information which is exempt from automatic downgrading and declassification under E.O. 11652. It is the property of the ERDC and is loaned to you. It is to be used only for the purpose for which it is loaned. Its transmission to an unauthorized person is prohibited by law.

UNCLASSIFIED  
~~SECRET~~

CLASSIFICATION CANCELLED  
PER DOC REVIEW JAN. 1973

~~SECRET~~  
CLASSIFICATION CANCELLED  
PER DOC REVIEW JAN. 1973



2197 0198

~~SECRET~~  
This document contains information the disclosure of which in any manner to an unauthorized person is prohibited by law.

CLASSIFICATION CANCELLED  
PER DOC REVIEW JAN. 1973

UNCLASSIFIED