

RAP TEAM RESPONSE TO RADIOACTIVE MATERIAL ON THE NAVAJO RESERVATION

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RAP TEAM RESPONSE
NOVEMBER 3, 2011

BACKGROUND INFO

- Scrap metal handler found an abandoned car half buried in the side of a hill
- On Tuesday, Oct. 25, 2011, the abandoned car set off a radiation detector at a metal recycler in Phoenix
- Investigated the load and found that the source was in a metal (coffee) can in the bed of an 1960's pickup.
- Scrap metal recycler took reading on the top of the can (RAD COMM RC22 WAND)
 - 360 rads/hour on the top of the can
 - Zero at 6 to 12 inches
- The scrap handler took the can back home



BACKGROUND INFO

- Team from the Navajo Nation Environmental Protection Agency checked the can with a calibrated LUDLUM Model 19
 - 112 milli-Rad (On the surface of the bucket)
 - 320 milli-Rad (With the bucket removed)
 - 5000 milli-Rad (On top of the open can)
 - 90 milli-Rad (20 feet away)

WHAT DO WE KNOW?

- Can containing radioactive material
- RAD COMM R C22 WAND
 - 360 rads/hour on the top of the can
 - Zero at 6 to 12 inches
- LUDLUM Model 19
 - 112 milli-Rad (On the surface of the bucket)
 - 320 milli-Rad (With the bucket removed)
 - 5000 milli-Rad (On top of the open can)
 - 90 milli-Rad (20 feet away)

SKETCH

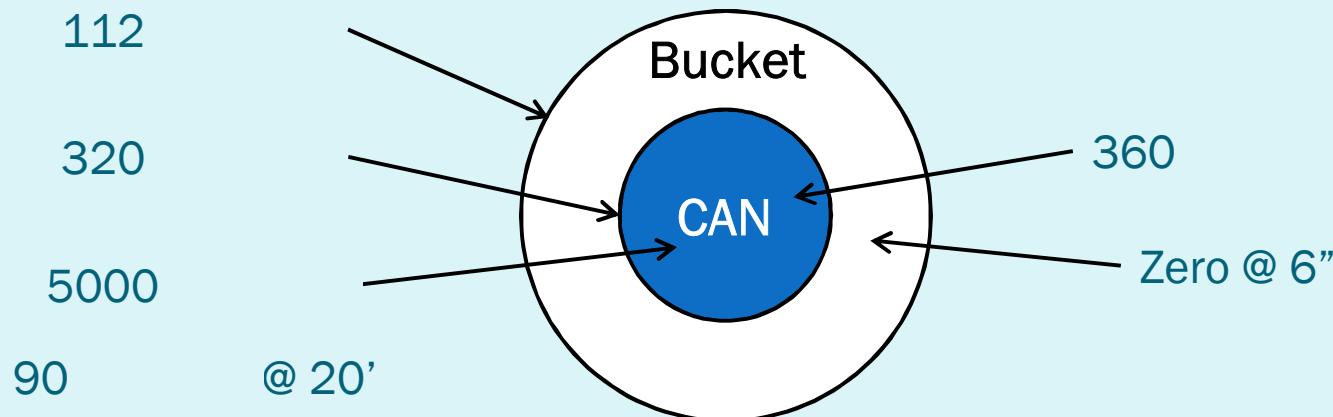
SKETCH



LUDLUM Model 19



RAD COMM RC22 WAND



WHAT IS IT?







RAP TEAM SURVEY RESULTS

- Radiation survey of the can (Bicron MicroRem and RO-20)
 - 1.0 millirem/hour on contact
 - 0.2 millirem/hour at 1 foot
- Contamination survey of the can
 - No loose contamination above 10 CFR 835, Appendix D limits on the area around the can or on the can itself



Identifinder

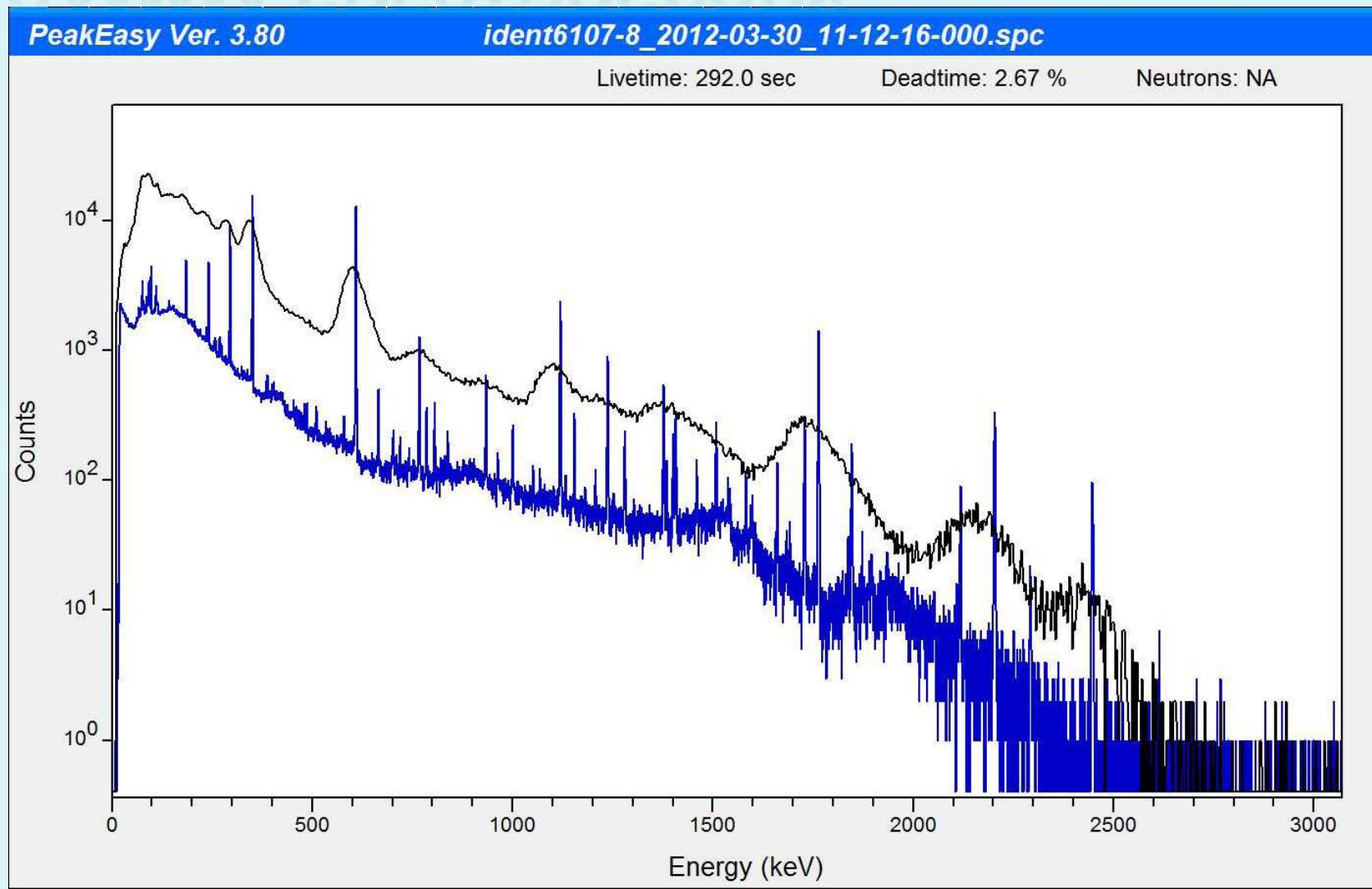
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Detective



GAMMA SPECTROSCOPY



URANIUM ORE
