





Beyond Traditional Wellhead Inspections with a Down-Well Camera





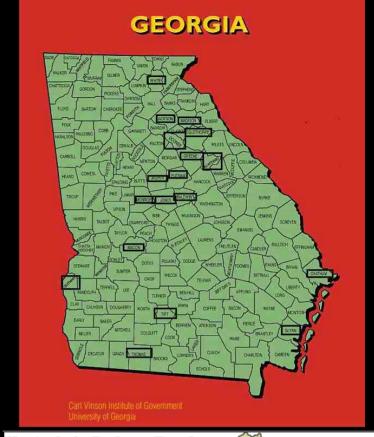


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Wells Inspections

- Wells previously identified with water quality problems
 - Bacteria (total coliform and E. coli)
 - Severe corrosion
 - Organic matter
 - Nitrate
 - Tannin
 - BETX
- Locations
 - 18 Counties across Georgia
 - Kentucky Jackson Purchase Area





Well Types and Aquifers

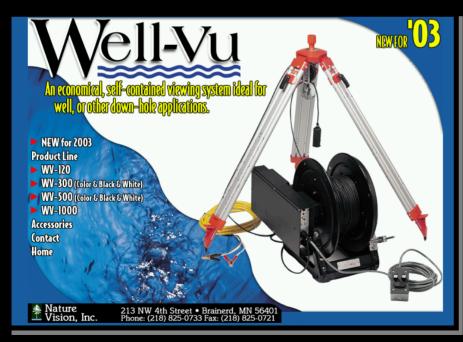
- Well types
 - Bucket auger bored
 - Drilled (open hole)
- Aquifer types
 - Alluvial
 - Crystalline rock
 - Confined carbonate





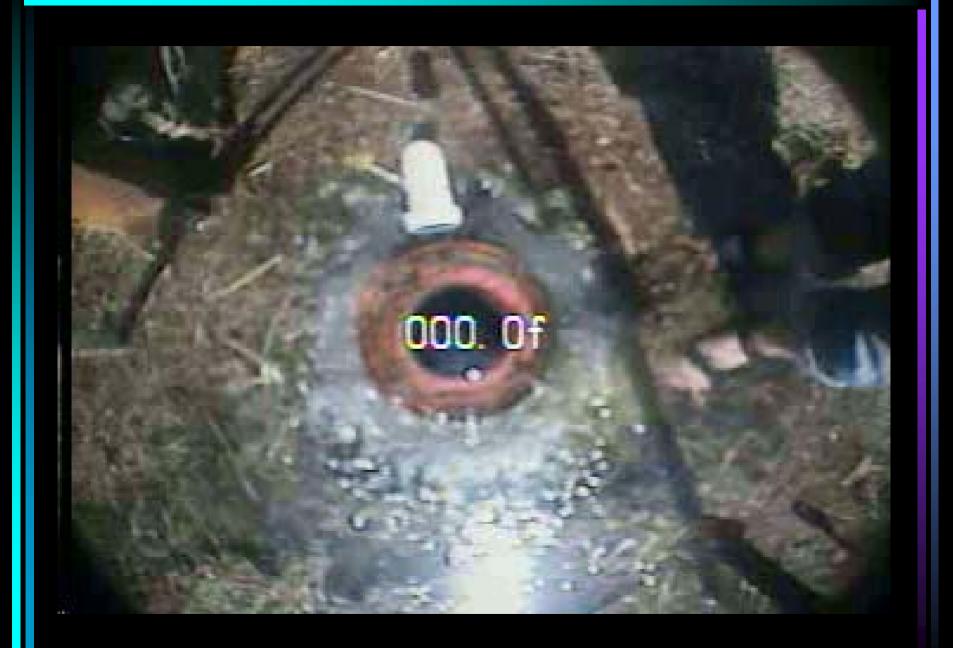
UGA Well-CAM

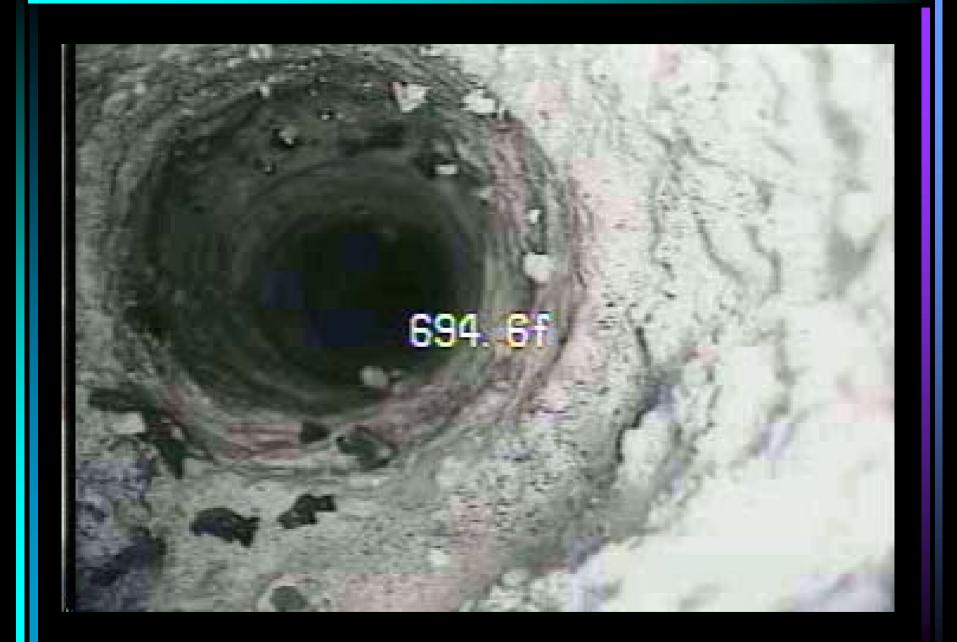




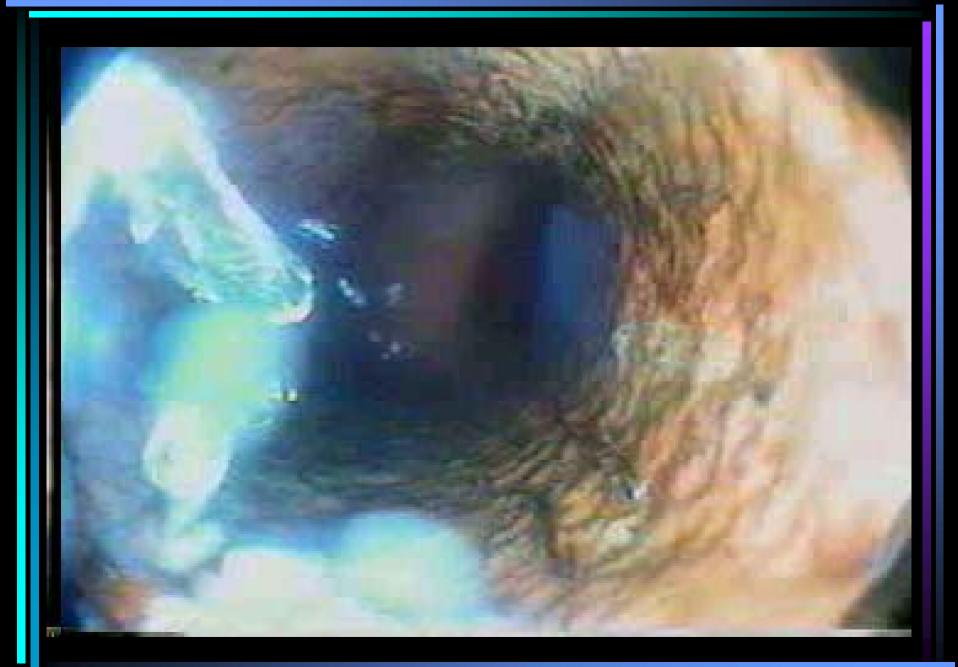




























Junk









More Junk





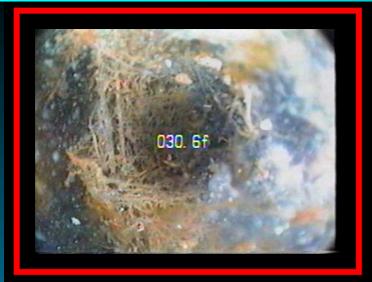




Critters





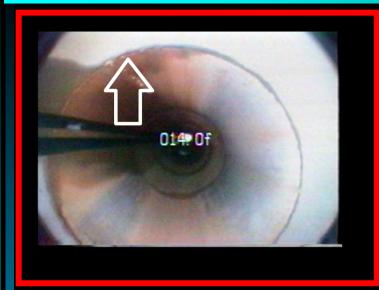




Roots





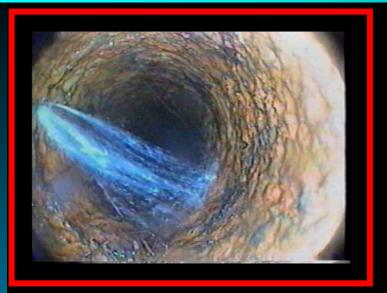


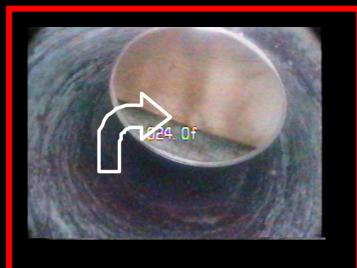


Leaks and Holes









Casing Leaks





Conclusions

- Down-well videos can identify avenues for contamination and are an effective step beyond traditional wellhead inspections.
- Complex hydrogeology and well engineering principals are easily conveyed.
- This visual information has a place in education programs for protecting groundwater resources.