

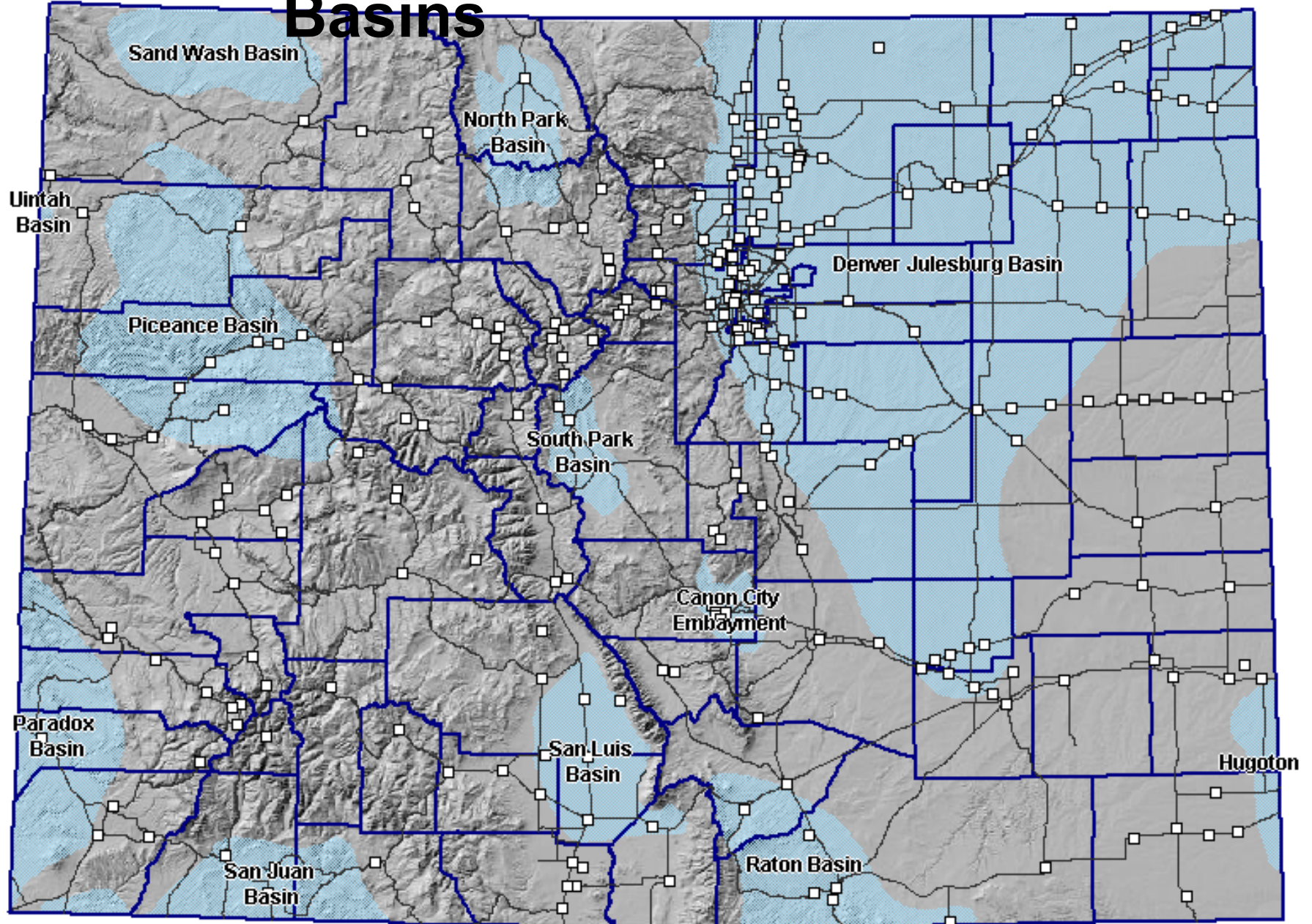
Attorney Matthew Sura

▶ Introduction...

- Former Director of Western Colorado Congress
- Graduate of University of Colorado Law School
- Attorney specializing in representation of landowners and mineral owners in oil and gas transactions and disputes

Colorado's Oil and Gas

Basins



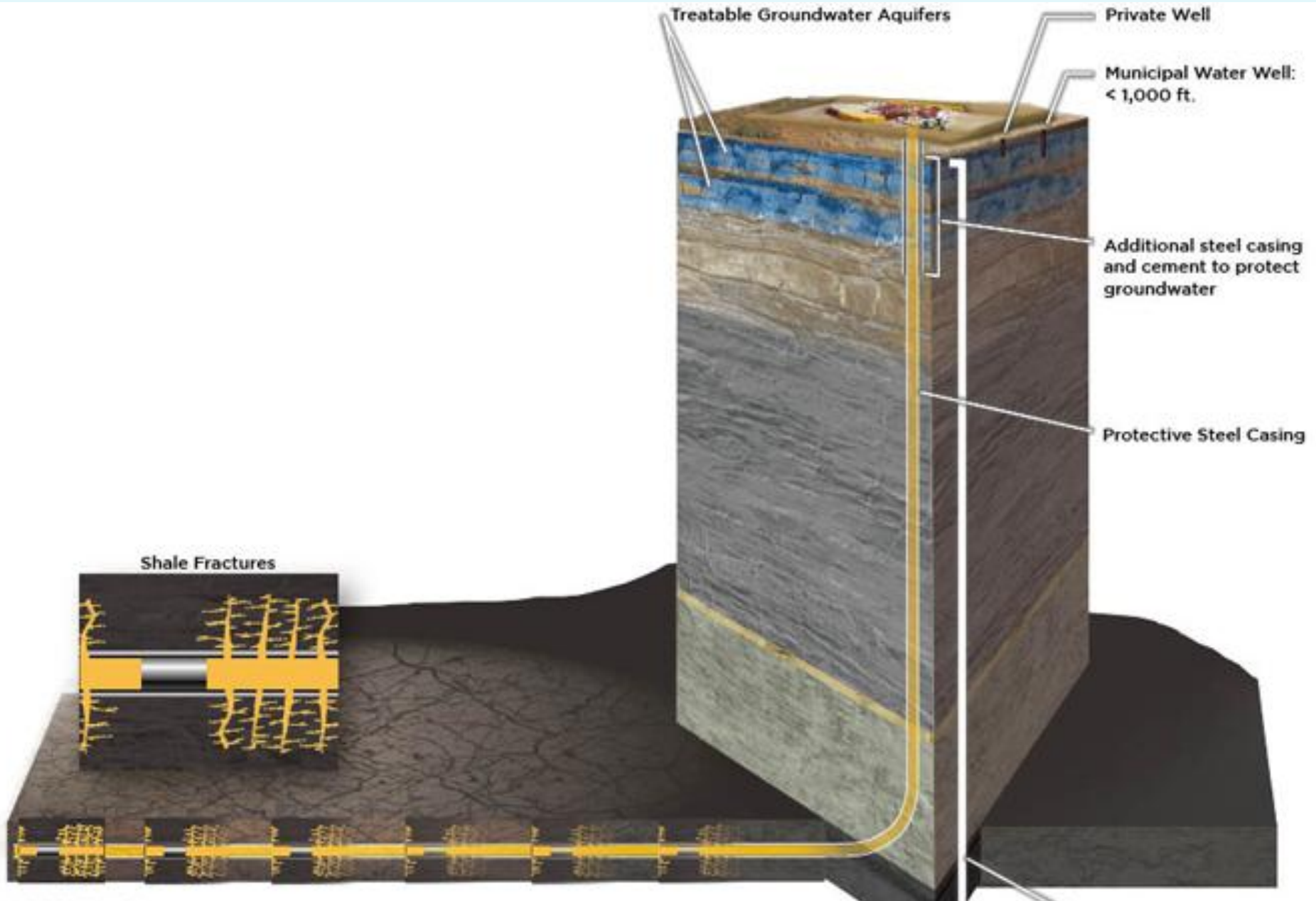
IMPACTS TO WATER QUALITY



Hydraulic Fracturing



Example Horizontal Well



SPILLS



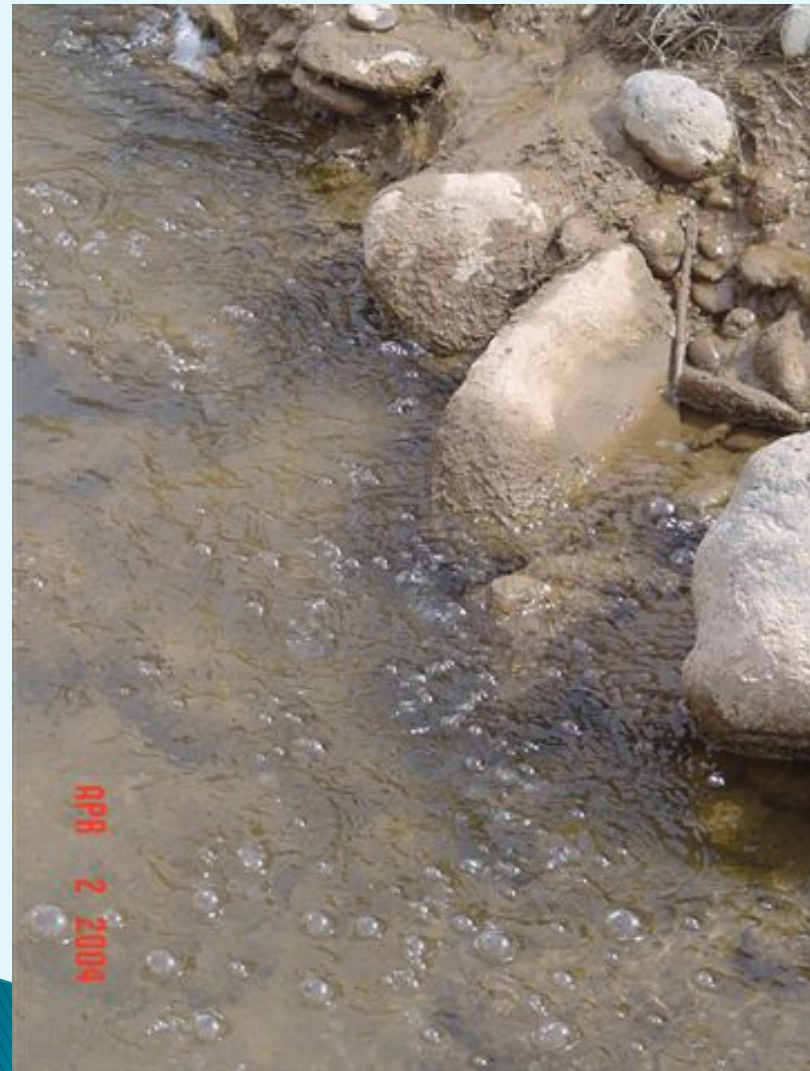
Denver Post study:
From 2008–2010,
average of more than
a spill per day,
average size of 5,300
gallons

Leaking Waste Pits



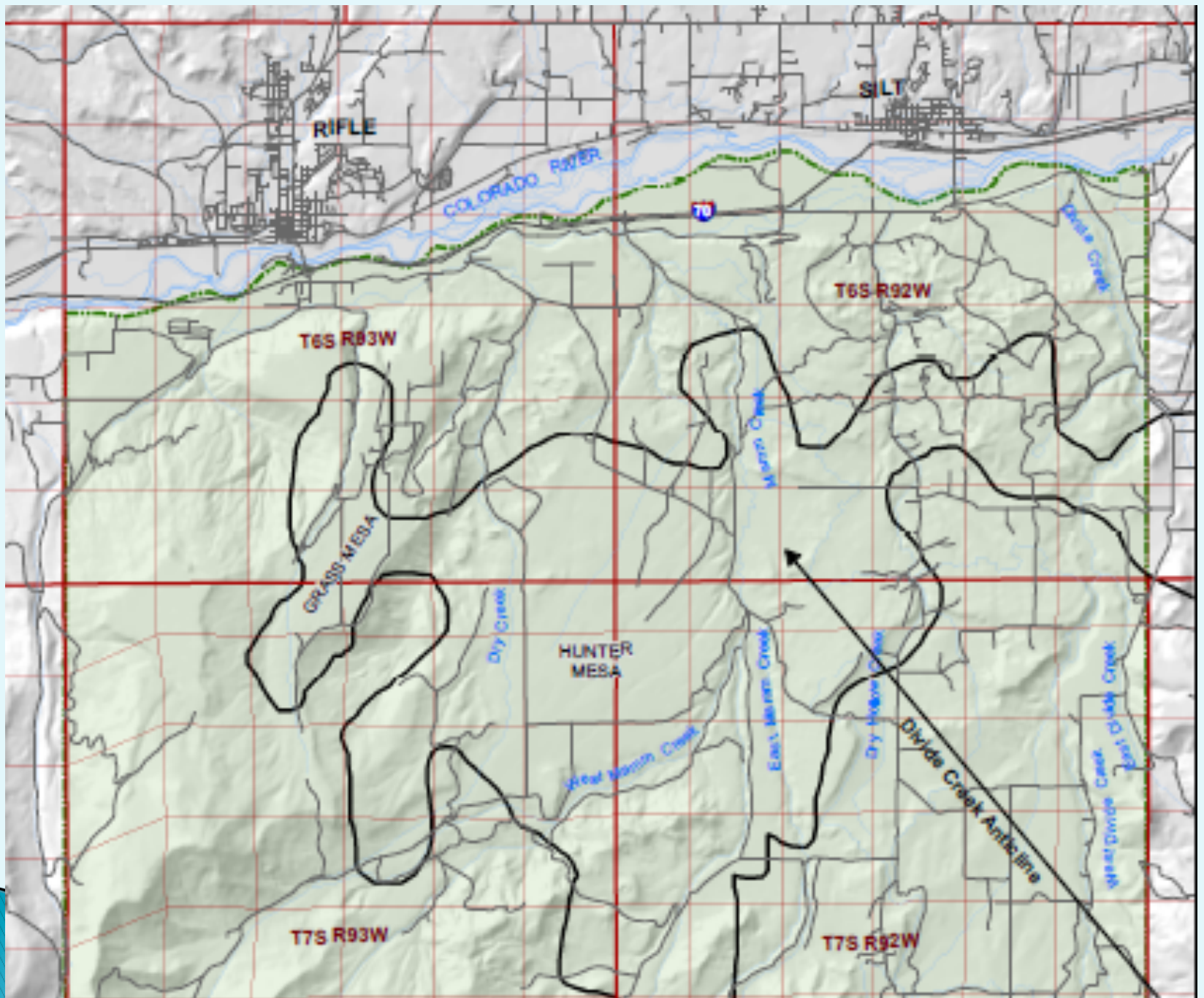
Hydraulic fracturing pit.

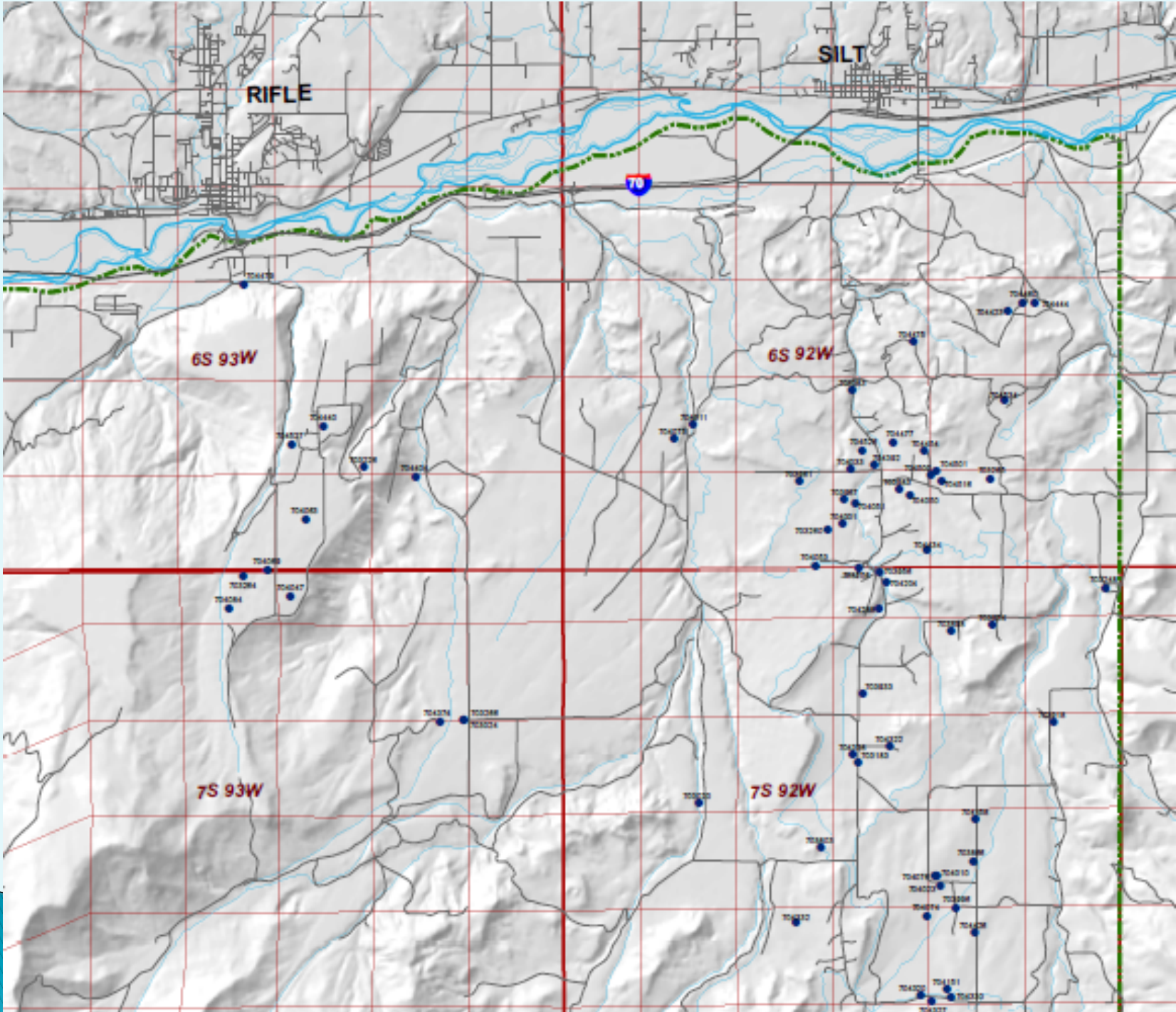
Methane Seeps

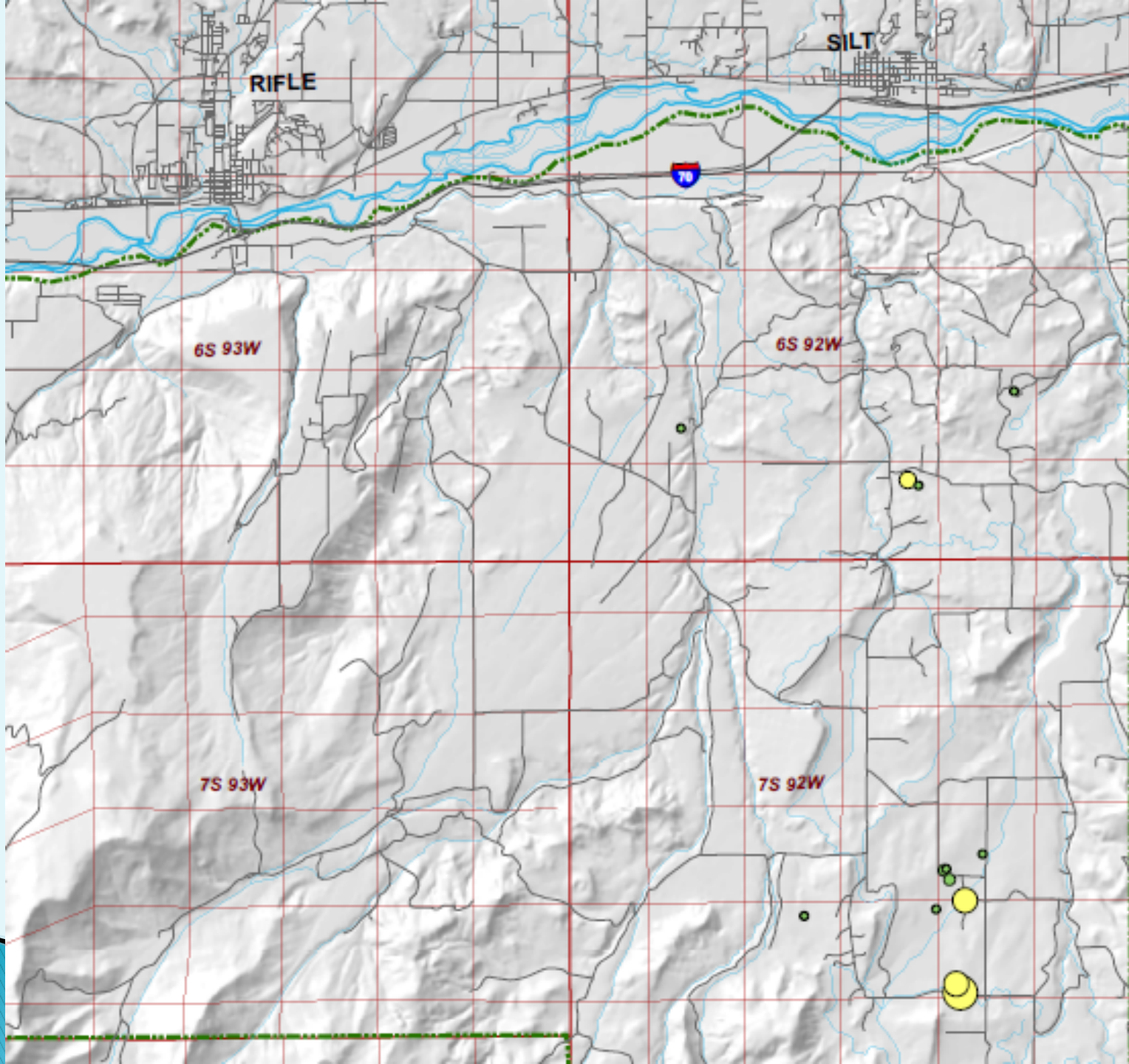


Divide Creek in Silt Colorado, April 2004, contaminated with methane and ignitable. The accident also affected water wells in three homes.

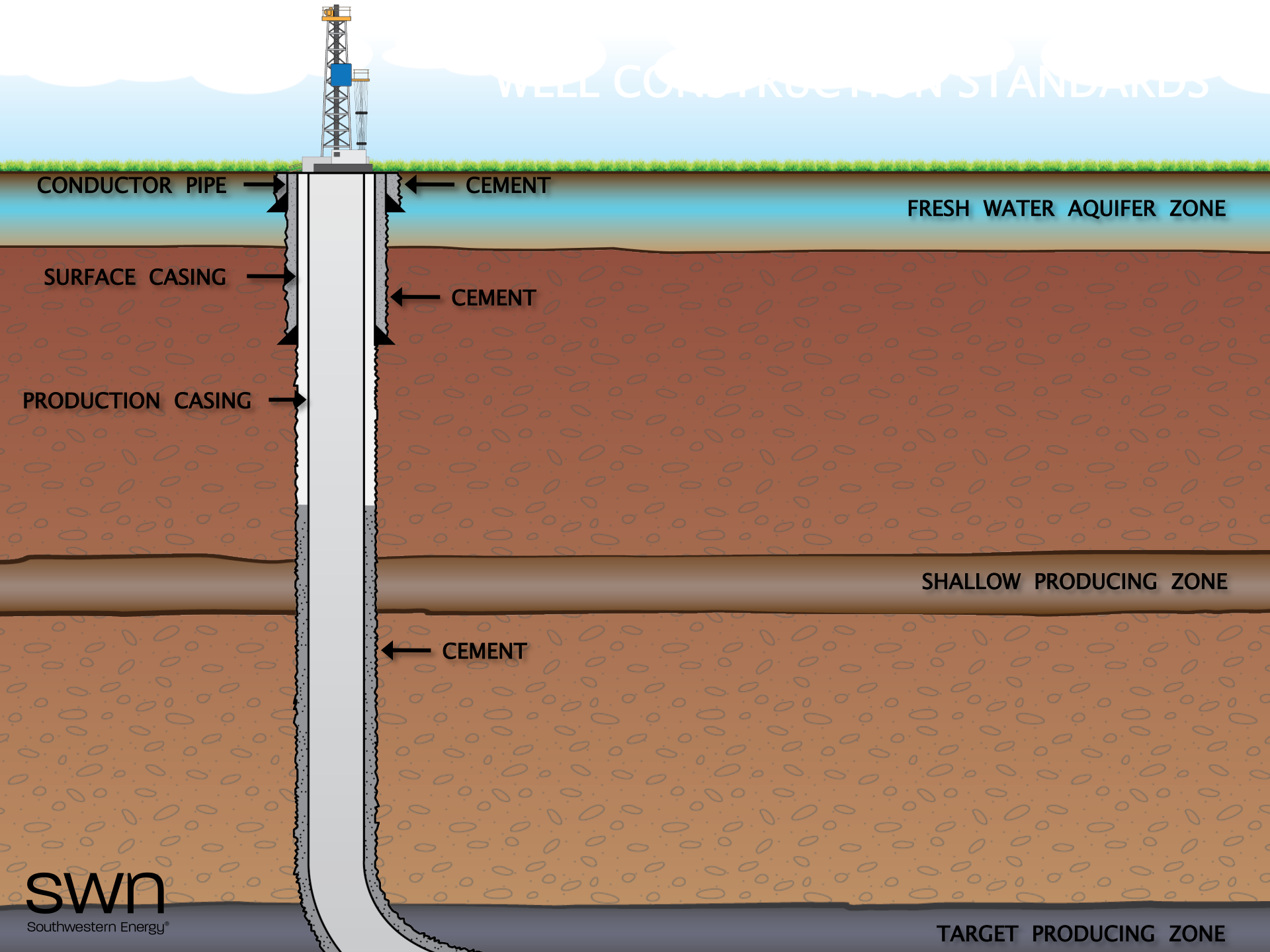








WELL CONSTRUCTION STANDARDS



CONDUCTOR PIPE

CEMENT

FRESH WATER AQUIFER ZONE

SURFACE CASING

CEMENT

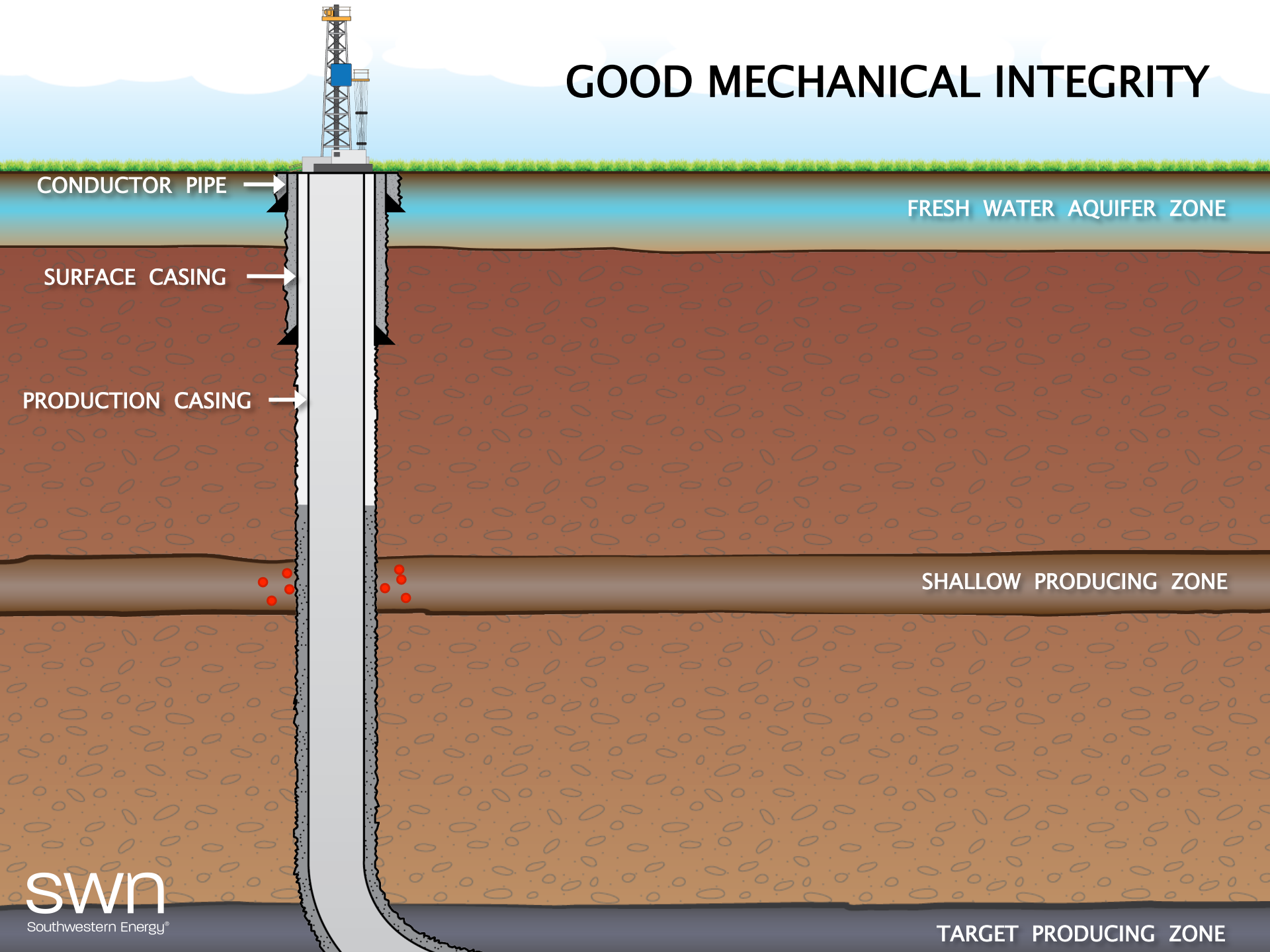
PRODUCTION CASING

SHALLOW PRODUCING ZONE

CEMENT

TARGET PRODUCING ZONE

GOOD MECHANICAL INTEGRITY



CONDUCTOR PIPE

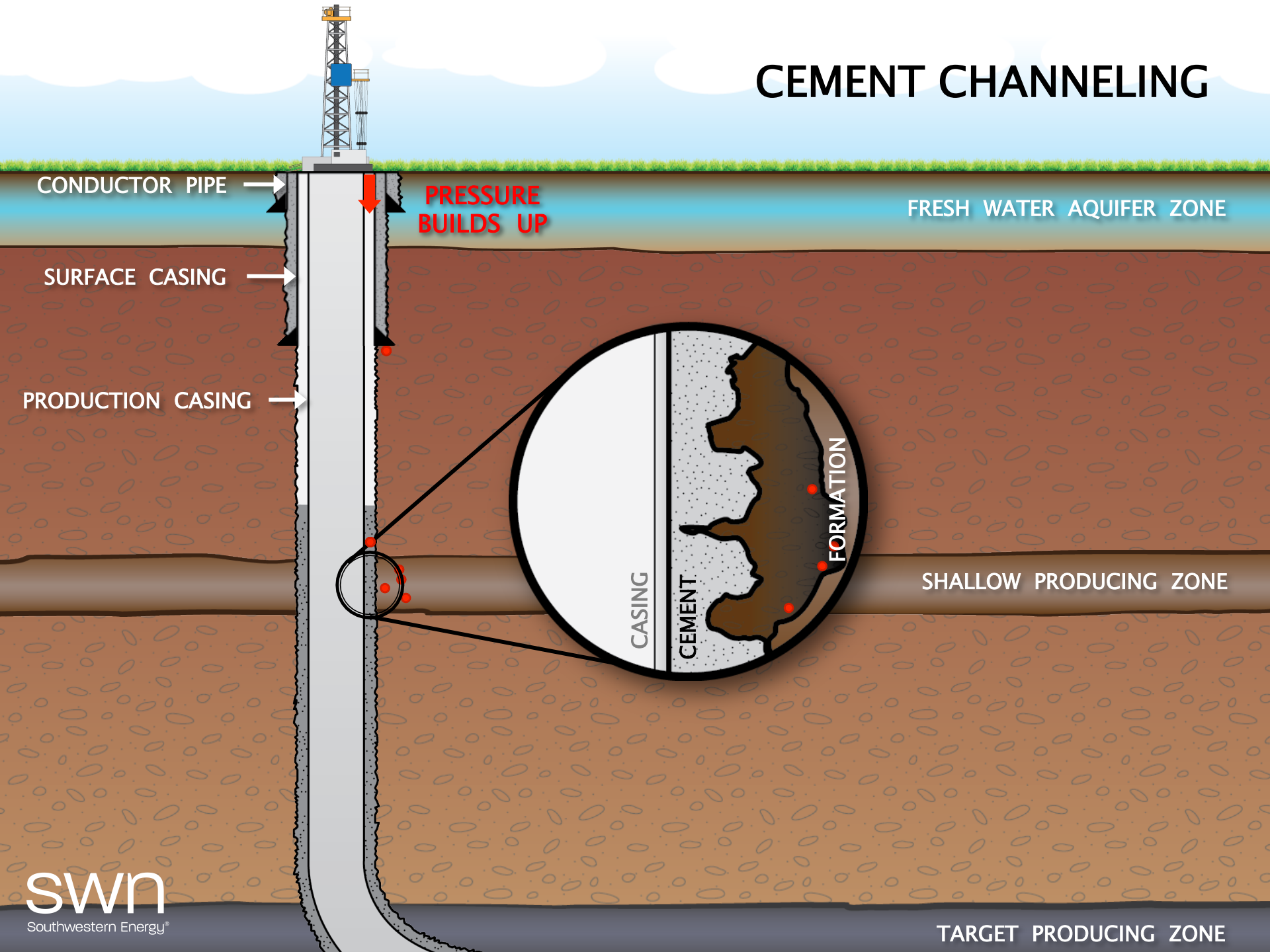
FRESH WATER AQUIFER ZONE

SURFACE CASING

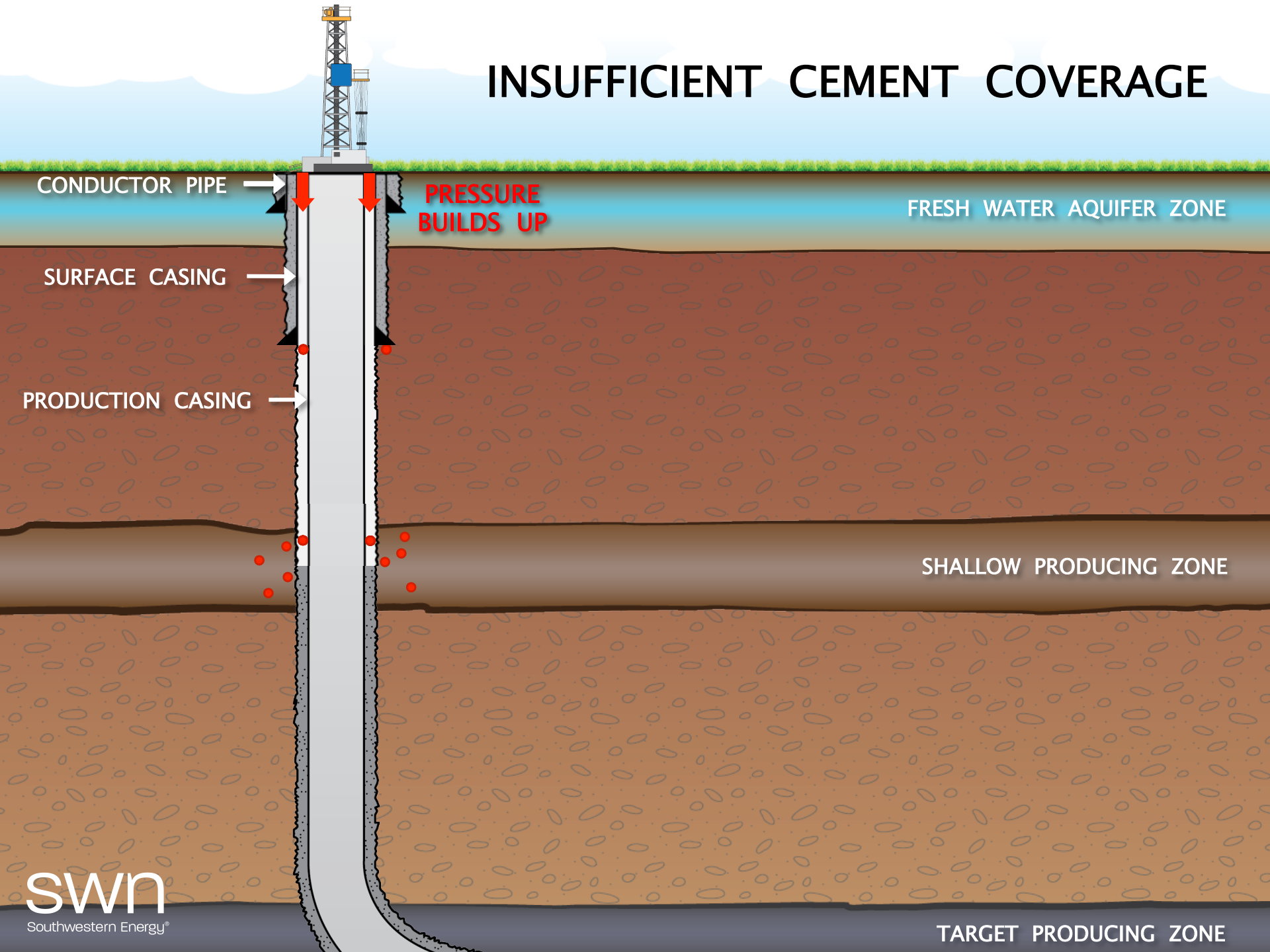
PRODUCTION CASING

SHALLOW PRODUCING ZONE

CEMENT CHANNELING



INSUFFICIENT CEMENT COVER



CONDUCTOR PIPE

PRESSURE
BUILDS UP

FRESH WATER AQUIFER ZONE

SURFACE CASING

PRODUCTION CASING

SHALLOW PRODUCING ZONE

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