

Smith Energy Corp

API# 05-121-10869

Longknife 21-32

NENW Section 32 T2S-R50W, 6th pm
(600'FNL, 2040'FWL)

SENSITIVE AREA DETERMINATION

- Box #1:** Discharge water
>1.25 Background
>250 ppm Chloride
BTEX negative
- Box #2:** Underlain by Ogallala Aquifer
- Box #3:** Hydraulic Conductivity of Valent >10⁻⁶ cm/sec
- Box #4:** New pit not within domestic use or WHPA
- Box #5:** Not within 1/8 mile of domestic well or 1/4 mile of public water supply well
- Box #6:** Pit bottom to average high groundwater is > 20' (is approx. 120').
Depth to water level in the area is 130'-140'. Depth to shale is 240', with
approx. 100' water over shale (from conversation with landowner Dennis
Christianson)

CONCLUSION: NOT IN SENSITIVE AREA