

Smith Energy Corp

API# 05-121-10869

Longknife 21-32

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

Pit Size: 40' x 30' x 5' deep

Pit Area: 40' x 30' = 1200 sq ft

Pit Volume: 40' x 30' x 5' = 1069 bbls

Evaporation Calculation

Evaporation Rate = 50 (in/year)

Evaporation Rate = 50 (in/year) x 1/12 (ft/in) x 1200 (sq ft) x 1/5.615 (bbl/cu ft)
= 890 (bbl/yr)
= 2.4 (bbl/day)

Percolation Rate

Soil Type: Iliff Loam

Permeability = 3 (in/yr) x 1/12 (ft/in) x 1200 (sq ft) x 1/5.615 (bbl/cu ft) x 24 (hr/day)
= 1282 (bbl/day)

Note: Assume 50% efficiency due to silt clogging and clay swelling

Percolation Rate = 641 (bbl/day)