WATER SATURATION (SW) & NET PAY CALCULATION METHODS

Paddock & Blinebry Members - Yeso Formation

Archie Water Saturation (Sw) SwA= sqrt(Rw * F/ (RT))

NETPAY = (PHID > PhiCutoff and SwA < SwCutoff) * <Step> Net Pay (h)

Density Porosity (f) PHID = (RHOB - RhoF) / (RHOB - RhoM)

F = 1/PHID²

Formation & Net Pay Parameters

- Rw = .035 ohmm
- Density Matrix = 2.84 g/cc (RHOB)
- Density Fluid = 1.0 (RhoF)
- Measured Formation Matrix (RhoM) =
- Deep Resistivity = RT
- Sw Cut off < 40%
- Porosity (f) Cut off > 3% (generated from Bulk Density Curve)
- Archie "a" (tortuosity factor) = 1
- Archie "m" (cementation exponent) = 2
- Archie "n" (saturation exponent) = 2

New Mexico OCD
Consolidated Hearing Cases:
14613 & 14647
Burnett Oil Co., Inc./
Hudson Oil Company of Texas
Exhibit # 23

GGGG, INC.