

PCA Diagnostic 100-16-11-051-02-W5-0

Input Data

Injected Volume 5.777 m³
t_{inj} 0.54 h
Datum Depth 0.000 m

Results

ISIP 18765 kPa(a)
ISIP Gradient kPa/m
Closure Gradient kPa/m

Closure Marker 1

Closure time (t_c) 20.2000 h
Closure pressure (p_c) 16357 kPa(a)
Net Frac Press (Δp_{net}) 2408 kPa
G-Function at Closure (G_c) 13.837
Fluid Efficiency (η) 87.37 %

Closure Marker 2

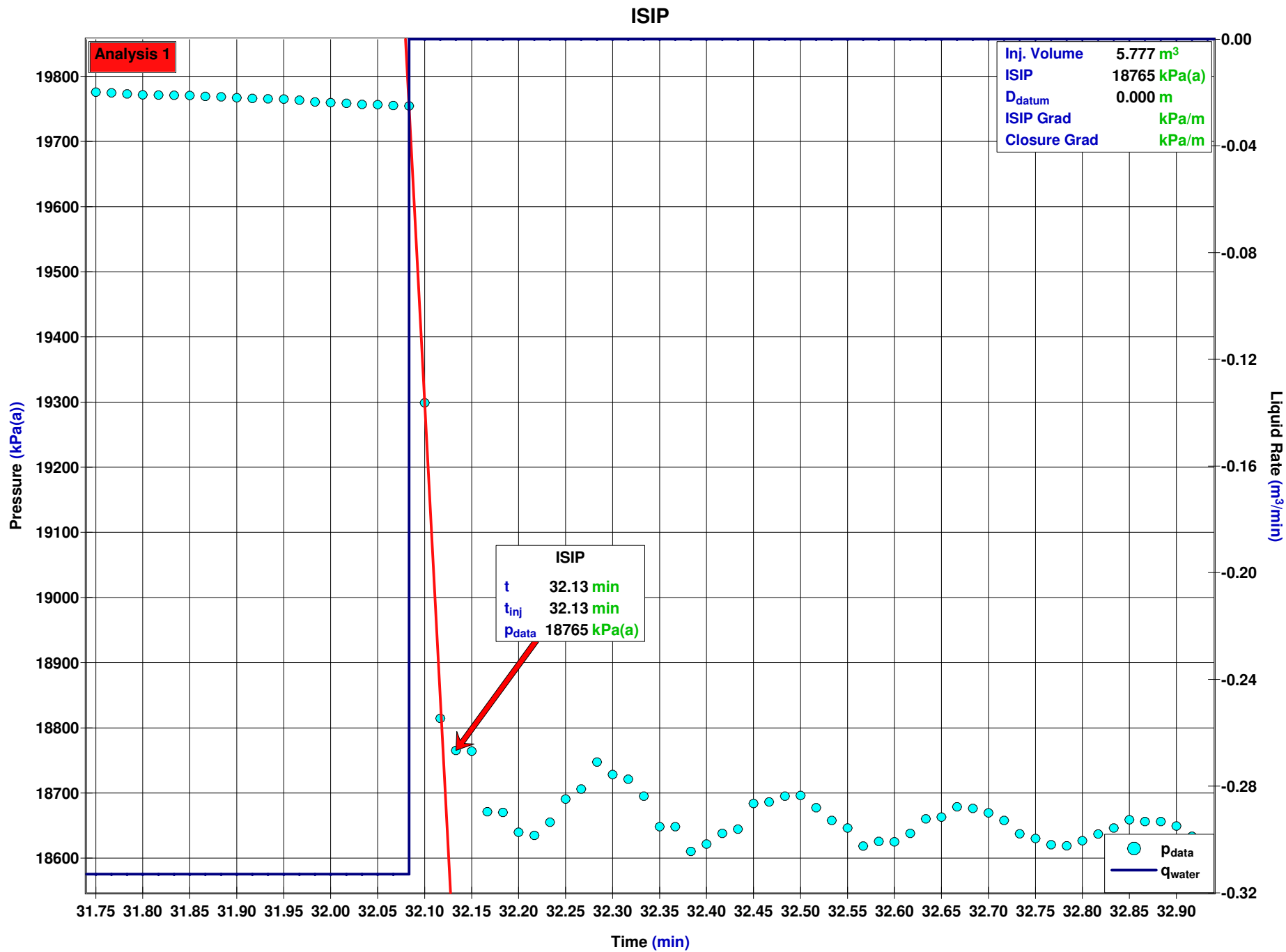
Closure time (t_c) 20.2000 h
Closure pressure (p_c) 16357 kPa(a)
Net Frac Press (Δp_{net}) 2408 kPa
G-Function at Closure (G_c) 13.837
Fluid Efficiency (η) 87.37 %

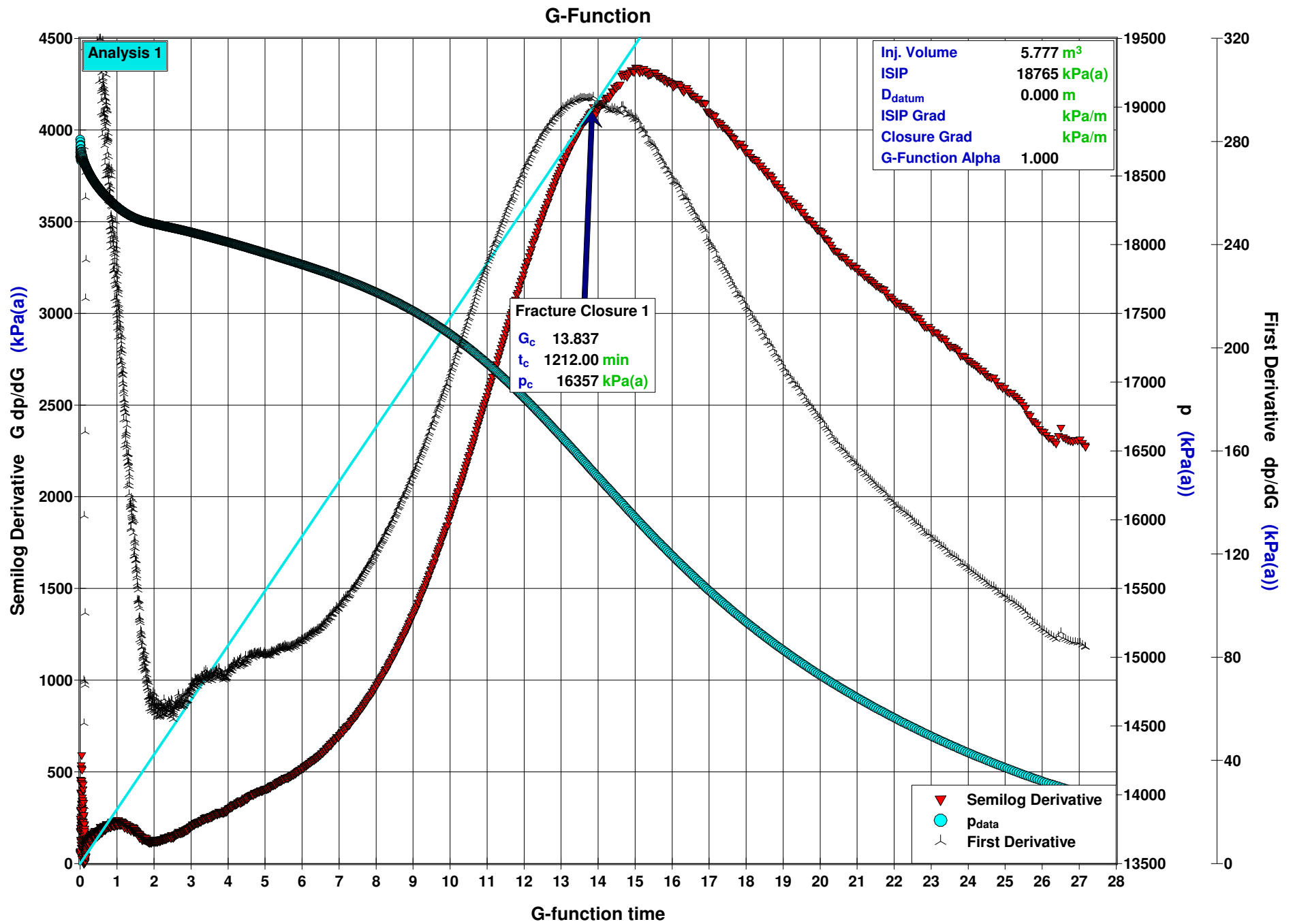
Fluid Properties

Oil Gravity (γ_o) 18.0 °API
Bubble Point Pressure (p_{bp}) 13091 kPa(a)
Oil Formation Volume Factor (B_o) 1.117 m³/m³
Oil Viscosity (μ_o) 11.3150 mPa.s
Oil Compressibility (c_o) 1.25e-05 1/kPa
Solution Gas Ratio (R_s) 35.29 m³/m³

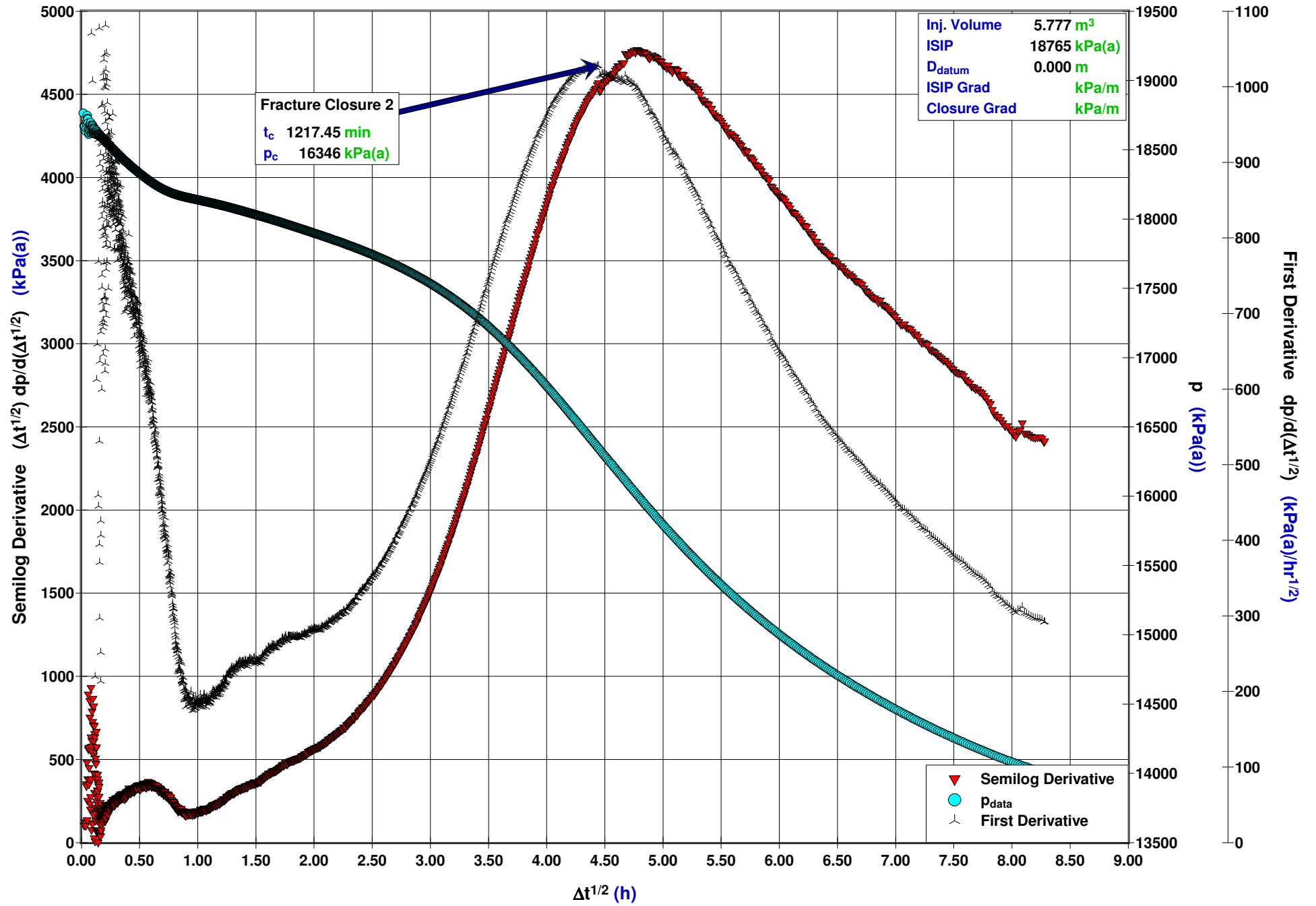
Reservoir Properties

Reservoir Temperature (T_{resv}) 50.5 °C
Reservoir Pressure (p_{resv}) 13000 kPa(a)

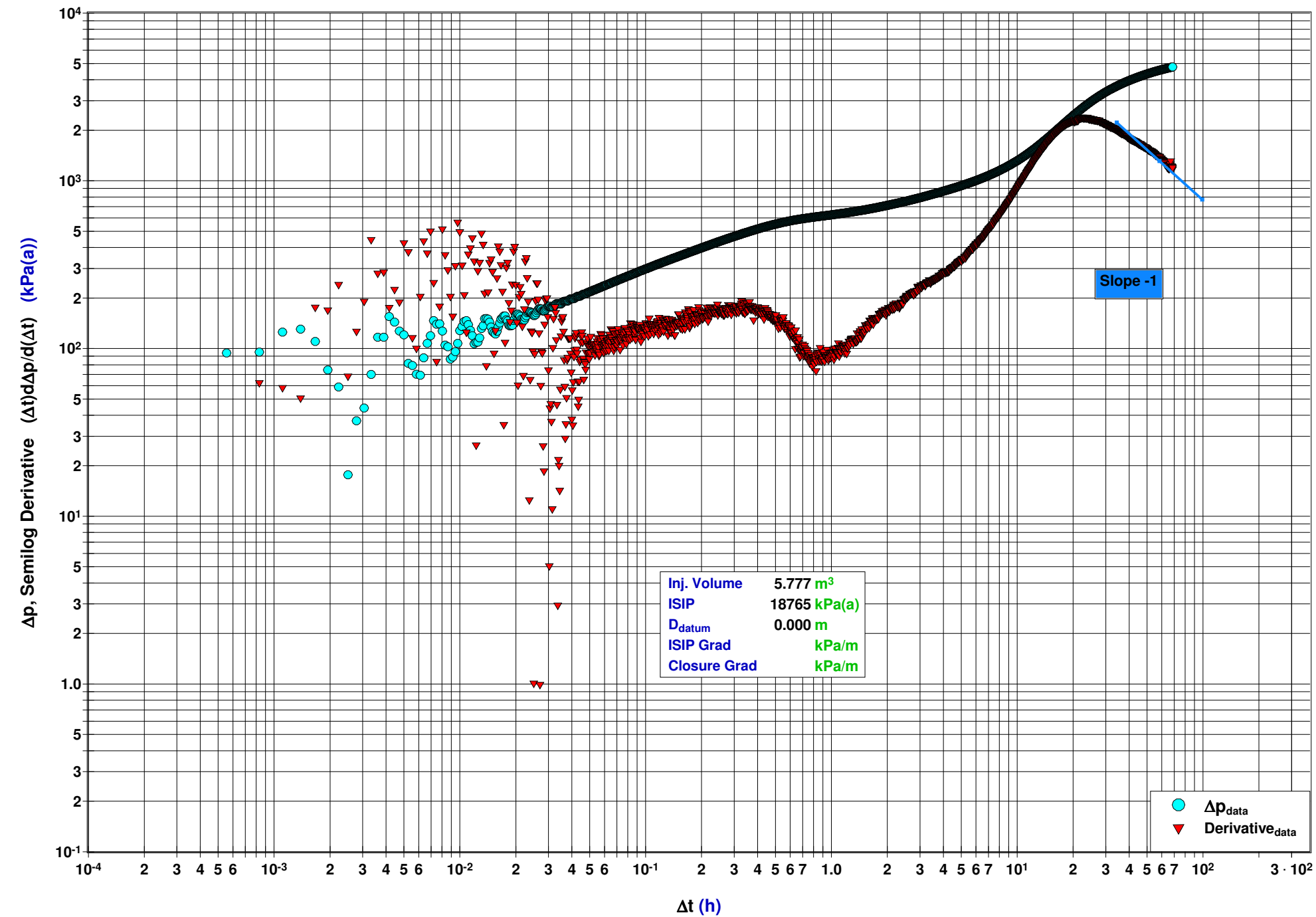




MiniFrac Sqrt(t)



Derivative



100-16-11-051-02-W5-0

Radial Analysis (FR)

Flow Capacity (kh)	21.3155 mD.m
Effective Permeability (k)	1.0658 mD
Extrapolated Pressure (p*)	12939 kPa(a)

Input Parameters

Estimated Initial Pressure (p _i)	12939 kPa(a)
Closure time (t _c)	1212.00 min

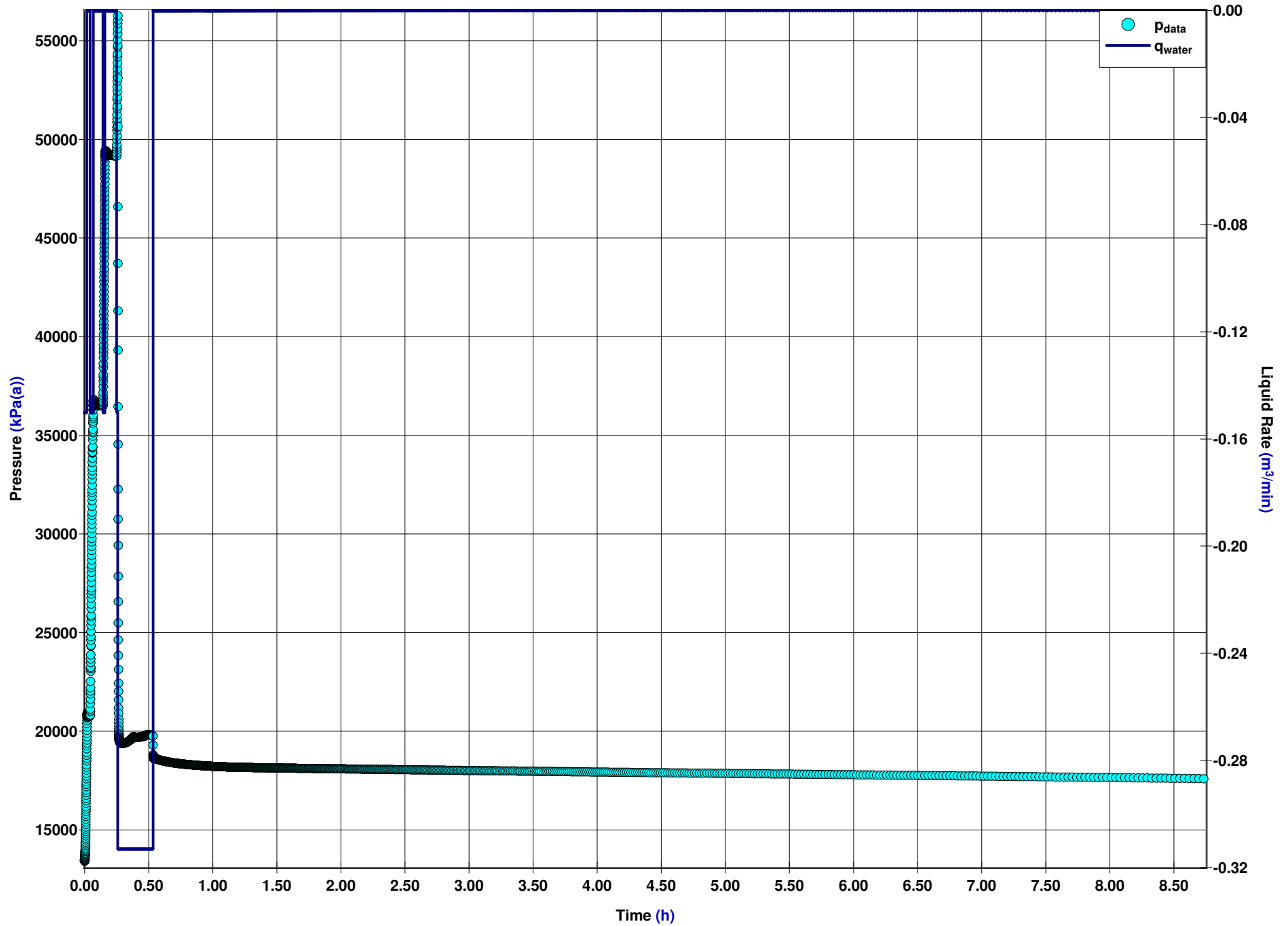
Fluid Properties

Oil Gravity (γ_o)	18.0 °API
Bubble Point Pressure (p _{bp})	13091 kPa(a)
Oil Formation Volume Factor (B _o)	1.117 m ³ /m ³
Oil Viscosity (μ_o)	11.3150 mPa.s
Oil Compressibility (c _o)	1.25e-05 1/kPa
Solution Gas Ratio (R _s)	35.29 m ³ /m ³

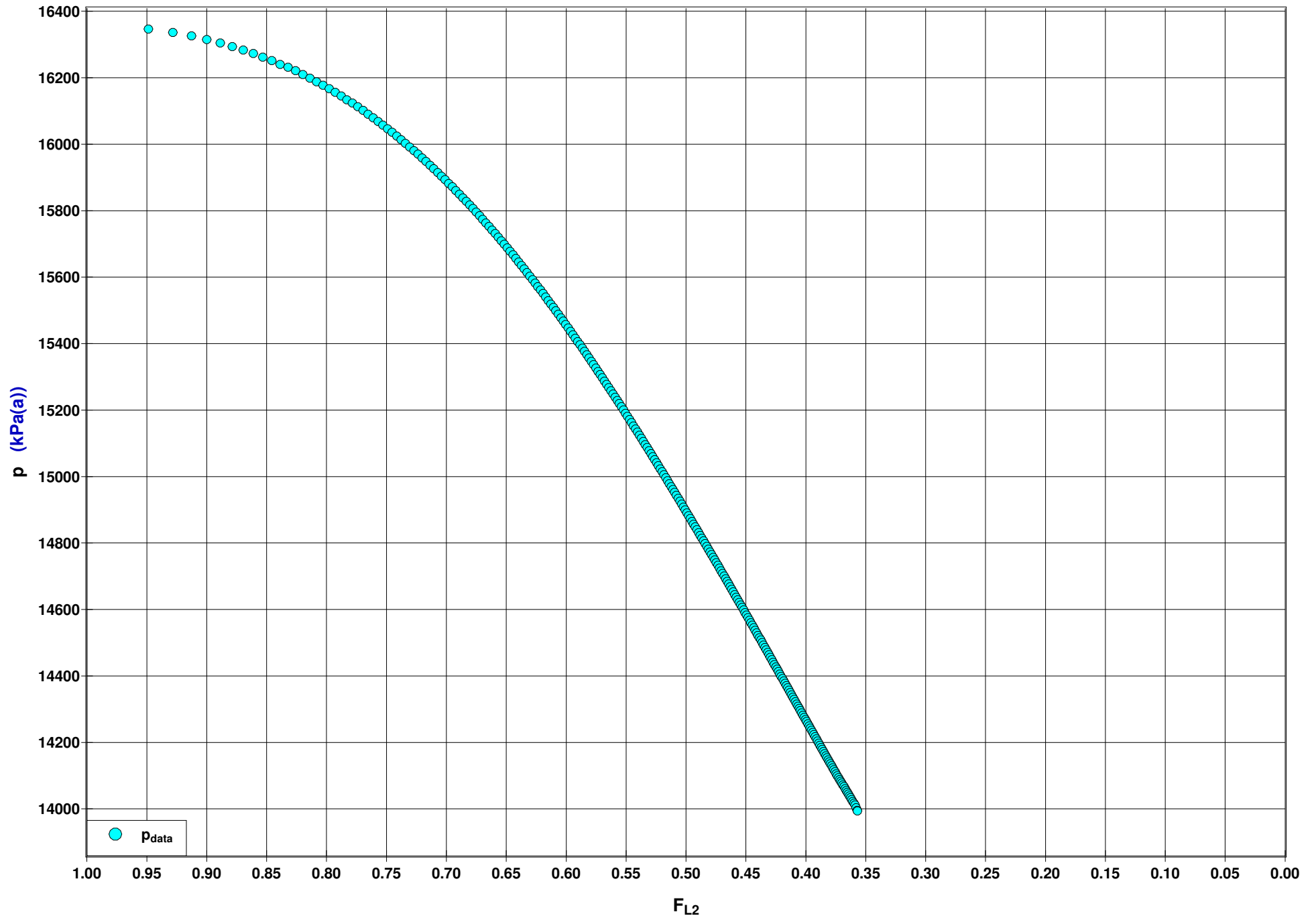
Reservoir Properties

Reservoir Temperature (T _{resv})	50.5 °C
Reservoir Pressure (p _{resv})	13000 kPa(a)
Net Pay (h)	20.000 m
Total Porosity (ϕ_t)	12.00 %
Gas Saturation (S _g)	0.00 %
Oil Saturation (S _o)	60.00 %
Water Saturation (S _w)	40.00 %
Formation Compressibility (c _f)	6.5383e-07 1/kPa
Total Compressibility (c _t)	8.3028e-06 1/kPa

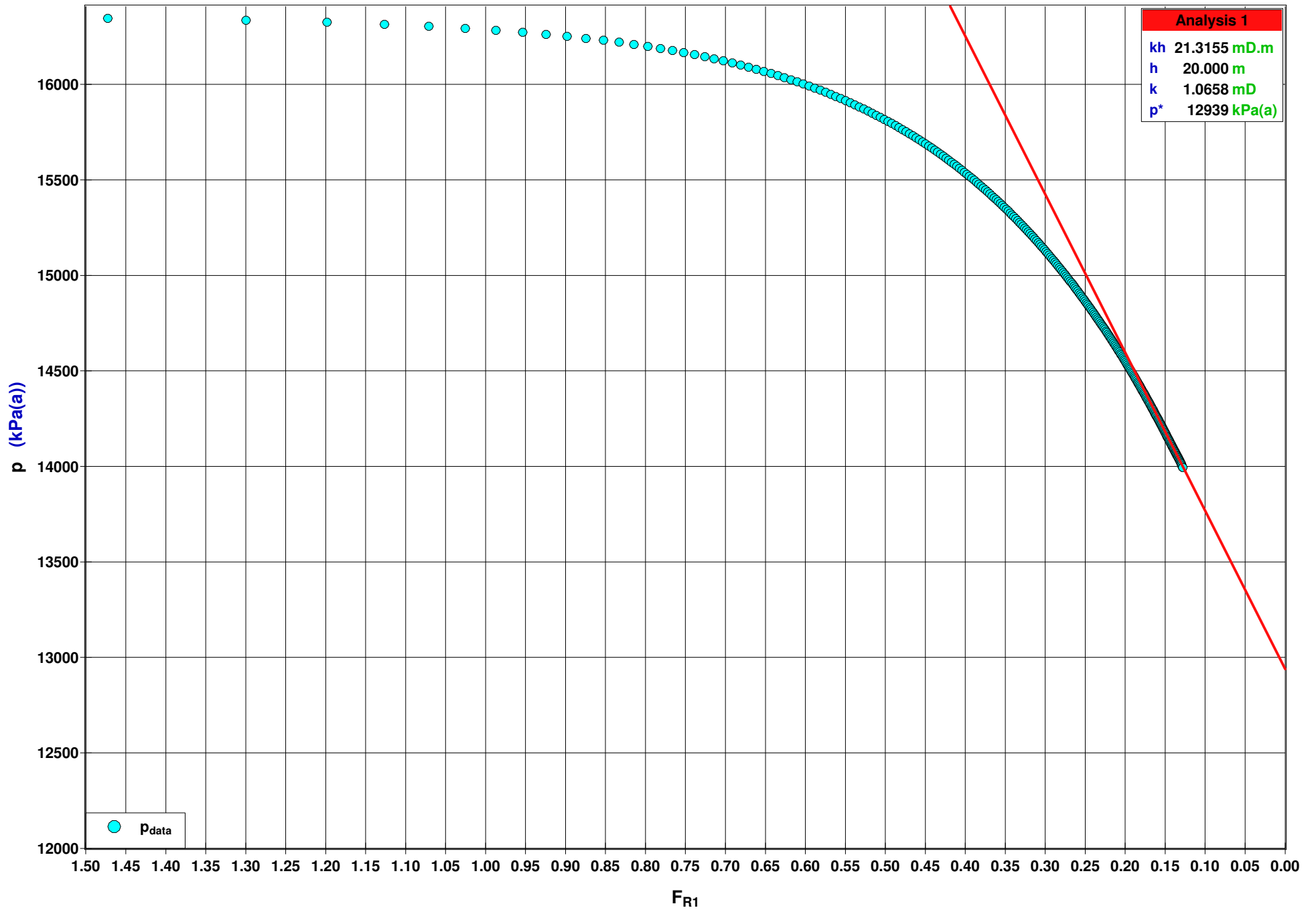
History



Minifrac Linear (Nolte)



Minifrac Radial (Nolte)



Derivative

