

EXAMPLE B01

Multiphase Oil & Gas Producer

1. **DESCRIPTION** -

Single survey in an oil gas well
Identify the source of the gas and oil split
GR, FBS, TEMP, GRADIO, CS

2. **EXAMPLE OBJECTIVES**

Perform a complete interpretation from LAS files through to interpreted report

3. **DATA FILES**

LAS files can be located with the EMERAUDE installation
B01d1-B01d4
B01u1-B01u4

4. **ADDITIONAL INFORMATION**

Oilfield units
Vertical well
Casing ID 6.184"
Use Absolute roughness default for new steel
Perfs
8170 – 8220
8350 – 8390
8450 – 8480
Set Top perfs as Markers A
Set Bottom perfs as Markers B
Qo = 2700bopd
Qg = 4.5MMscfd

Gradio already corrected for deviation
Flowmeter Blade size = 3"

PVT
Rs = 1100cuft/bl
Gas SG = 0.7
Oil = 38API

SINGLE PHASE EXAMPLE

Gas Producer

1. **DESCRIPTION** -

Multiple surveys in a gas producer

Identify the source of the gas production

GR, ILSR, CFSR, PRES, DTEM, GRADIO, CS

2. **EXAMPLE OBJECTIVES**

Perform a complete interpretation from LAS files through to interpreted report

3. **DATA FILES**

P1, P2, P3 Producing Survey LAS Files

S1 Shut in LAS Files

MD-TVD Spreadsheet

Single Phase Gas Producer PVT.epv file

Single Phase Gas Producer Units.eun file

4. **ADDITIONAL INFORMATION**

SI

P1 Qmax	10bwpd	19.985MMscf/D
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P2 Q2/3	19bwpd	14.349MMscf/D
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P3 Q1/3	2.2bwpd	6.189MMscf/D
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Oilfield units.. (except for depth = metres & Cable Speed m/min)

LOAD eun file

Deviation 16deg.

Casing ID 3.958"

Use Absolute roughness default for new steel

Perfs

3874.5 – 3888.5

3909.5 – 3921.5

Gradio already corrected for deviation

Blade Diameter CFSR 1.731"

Blade Diameter ILSR 1.2205"

PVT

Water Salinity = 500ppm

Gas SG = 0.7

Unrecognised mnemonics CFSR, CWHR, DCCL, GRAY, ILSR, DTEM