

Nodal Analysis - Engineering Report

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Query Context: Nodal Analysis Results

I. Summary of Solution

Nodal Analysis Summary
Operating Point: Flowrate (Q): 315.79 m³/hr
Bottomhole Pressure (BHP): 167.07 bar
Extracted Parameters: Reservoir Pressure:
Pump Head: 268.4 m
ESP Depth: 500.0 m
Full LLM Summary: Based on the
230.0 bar PI: 5.0 m³/hr/bar
provided context and tables, here is a concise technical paragraph summary for the Nodal Analysis: The Andijk Geothermie 1/2 system exhibits varying performance metrics across different periods. A notable operating point emerges, characterized by a production rate of Q=315.79 m³/hr, bottom-hole pressure (BHP) of 167.07 bar, and head of 268.4 m. The static parameter values mentioned in the context include no specific values for Reservoir Pressure, Productivity Index (PI), or ESP Depth. However, it is crucial to consider these critical parameters for a comprehensive understanding of the system's performance. Please note that this summary focuses on the nodal analysis and does not delve into the geothermal aspects or Quick-Scan results, as those topics are outside the scope of the provided context.

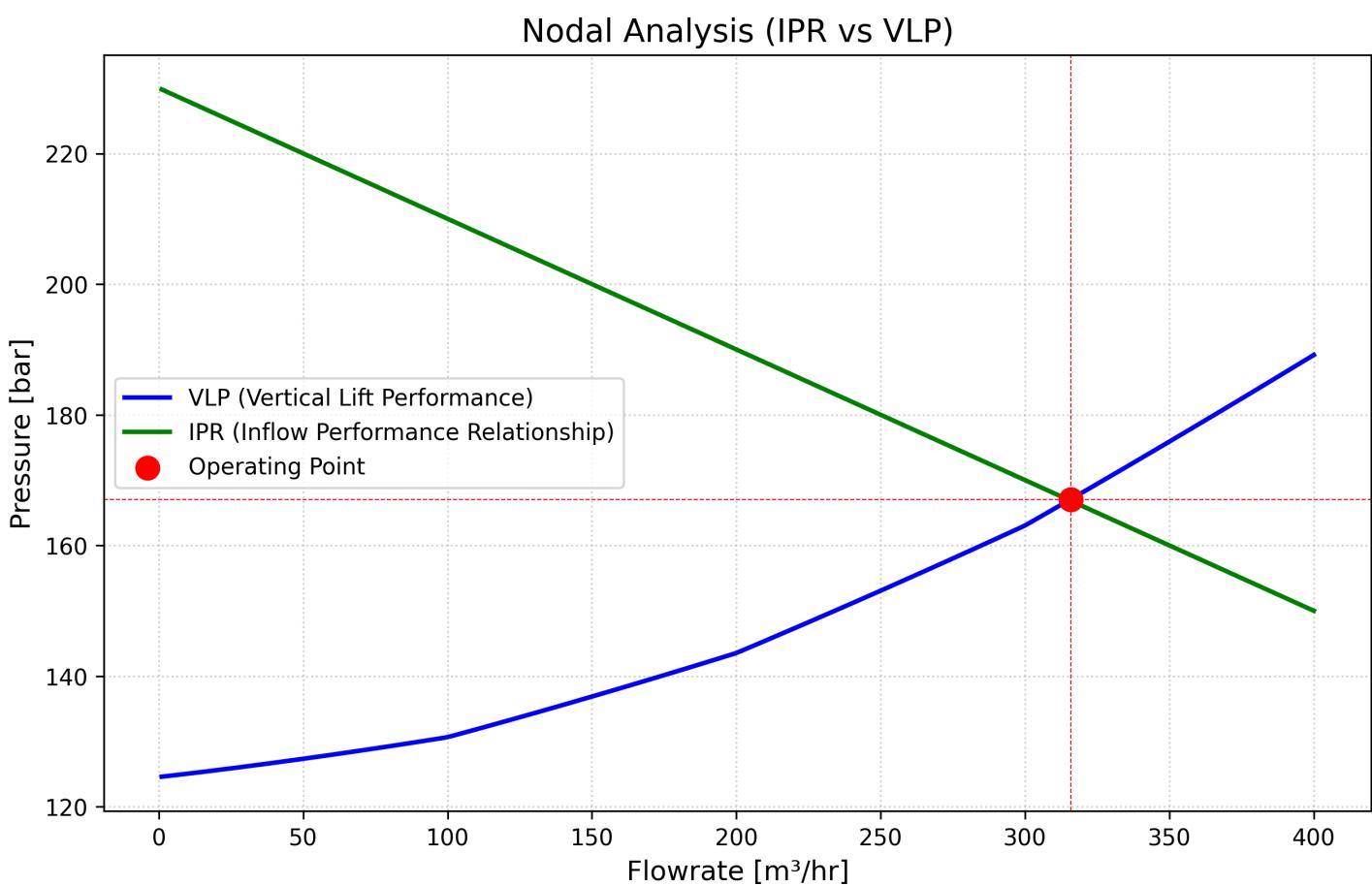
Operating Point

Flowrate (m³/hr) 315.79
Bottomhole Pressure (bar) 167.07
Pump Head (m) 268.4

Extracted Parameters

Reservoir Pressure (bar) 230.0
Wellhead Pressure (bar) 167.07
Productivity Index (m³/hr/bar) 5.0
ESP Depth (m) 500.0
Fluid Density (kg/m³)
Viscosity (cP) -
Tubing Roughness (mm) 1e-05

IV. Nodal Analysis Plot



V. Supporting Sources

Source 1: pdfFiles/ANDIJK-GT-01_2020_2025.xlsx | Type: table | Page: N/A

Andijk Geothermie 1/2 ANDIJK-GT-01 ECW Geo Andijk B.V	2021-11	188258.8	0	...
0	77186.1			

Source 2: pdfFiles/ANDIJK-GT-01_2020_2025.xlsx | Type: table | Page: N/A

Andijk Geothermie 1/2 ANDIJK-GT-01 ECW Geo Andijk B.V	2020-11	244322.37	0	...
0	100172.2			

Source 3: pdfFiles/ANDIJK-GT-01_2020_2025.xlsx | Type: table | Page: N/A

Andijk Geothermie 1/2 ANDIJK-GT-01 ECW Geo Andijk B.V. 2022-05 226448.293
0 92843.8 0 ...

Source 4: pdfFiles/ANDIJK-GT-01_2020_2025.xlsx | Type: table | Page: N/A

Andijk Geothermie 1/2 ANDIJK-GT-01 ECW Geo Andijk B.V. 2021-09 81635.824
0 33470.7 0 ...

Source 5: pdfFiles/ANDIJK-GT-01_2020_2025.xlsx | Type: table | Page: N/A

Andijk Geothermie 1/2 ANDIJK-GT-01 ECW Geo Andijk B.V. 2023-07 132468.26
0 45039.2 0 ...

Source 6: pdfFiles/ANDIJK-GT-01_2020_2025.xlsx | Type: table | Page: N/A

Andijk Geothermie 1/2 ANDIJK-GT-01 ECW Geo Andijk B.V. 2023-11 150334.434
0 61637.1 0 ...