

Nodal Analysis - Engineering Report

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Query Context: Nodal Analysis Results

I. Summary of Solution

Nodal Analysis Summary
Pressure (BHP): 167.07 bar Operating Point: Flowrate (Q): 315.79 m³/hr Bottomhole
230.0 bar Pump Head: 268.4 m Extracted Parameters: Reservoir Pressure:
PI: 5.0 m³/hr/bar ESP Depth: 500.0 m Full LLM Summary: Based on the
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.

II. Operating Point

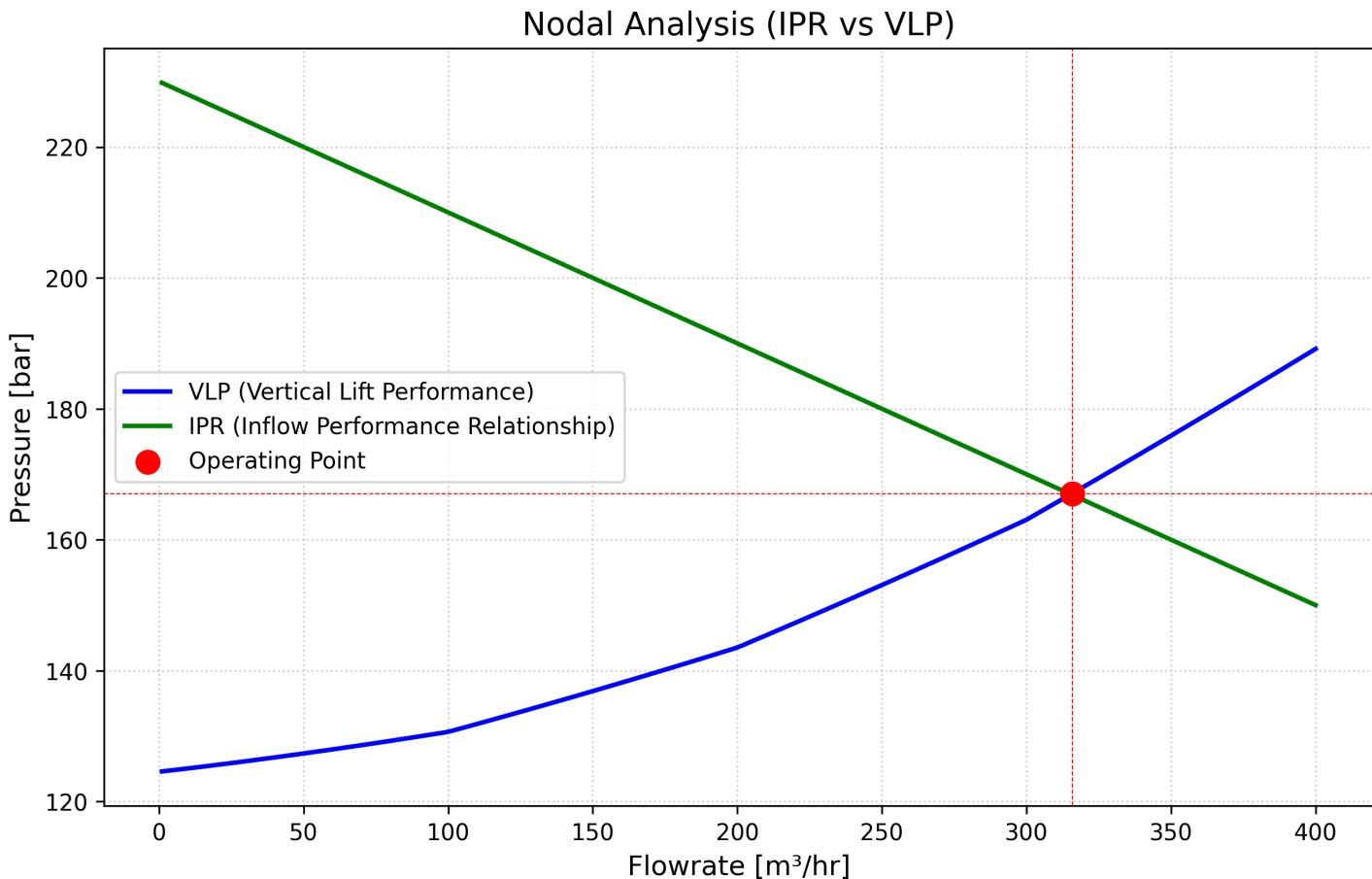
Parameter	Value
Flowrate (m ³ /hr)	315.79
Bottomhole Pressure (bar)	167.07
Pump Head (m)	268.4

III. Extracted Parameters

Parameter	Value
Reservoir Pressure (bar)	230.0
Wellhead Pressure (bar)	10.0
Productivity Index (m ³ /hr/bar)	5.0
ESP Depth (m)	500.0
Fluid Density (kg/m ³)	-

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

Table Preview (First 3 Rows):

Unnamed: 0 | Unnamed: 1 | Unnamed: 2 | Unnamed: 3 | Kenmerken van productieput

Andijk Geothermie 1 | ANDIJK-GT-01 | ECW Geo Andijk B.V | 2020-01 | 255155.41

Aardwarm

Andijk Ge

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

Table Preview (First 3 Rows):

Unnamed: 0 | Unnamed: 1 | Unnamed: 2 | Unnamed: 3 | Kenmerken van productieput

Aardwarm

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

Table Preview (First 3 Rows):

Unnamed: 0 | Unnamed: 1 | Unnamed: 2 | Unnamed: 3 | Kenmerken van productieput

Andijk Geothermie 1/ | ANDIJK-GT-01 | ECW Geo Andijk B.V | 2020-01 | 255155.41

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

Table Preview (First 3 Rows):

Unnamed: 0 | Unnamed: 1 | Unnamed: 2 | Unnamed: 3 | Kenmerken van productieput

Andijk Geothermie 1/ | ANDIJK-GT-01 | ECW Geo Andijk B.V | 2020-01 | 255155.41

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

Table Preview (First 3 Rows):

Unnamed: 0 | Unnamed: 1 | Unnamed: 2 | Unnamed: 3 | Kenmerken van productieput

Andijk Geothermie 1/ | ANDIJK-GT-01 | ECW Geo Andijk B.V | 2020-01 | 255155.41

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

Table Preview (First 3 Rows):

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Andijk Geothermie 1/ | ANDIJK-GT-01 | ECW Geo Andijk B.V | 2020-01 | 255155.41

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