

Nodal Analysis - Engineering Report

Generated: 2025-11-21 16:19:12

Query: Nodal Analysis Results

I. Summary of Solution

Nodal Analysis Summary

Operating Point:
Flowrate (Q): 315.79 m³/hr
Bottomhole Pressure (BHP): 167.07 bar
Pump Head: 268.4 m

Extracted Parameters:
Reservoir Pressure: 230.0 bar
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.

Note: Since there are no specific values provided for Reservoir Pressure, PI, and ESP Depth, I did not quote any static parameter values from the source documents.

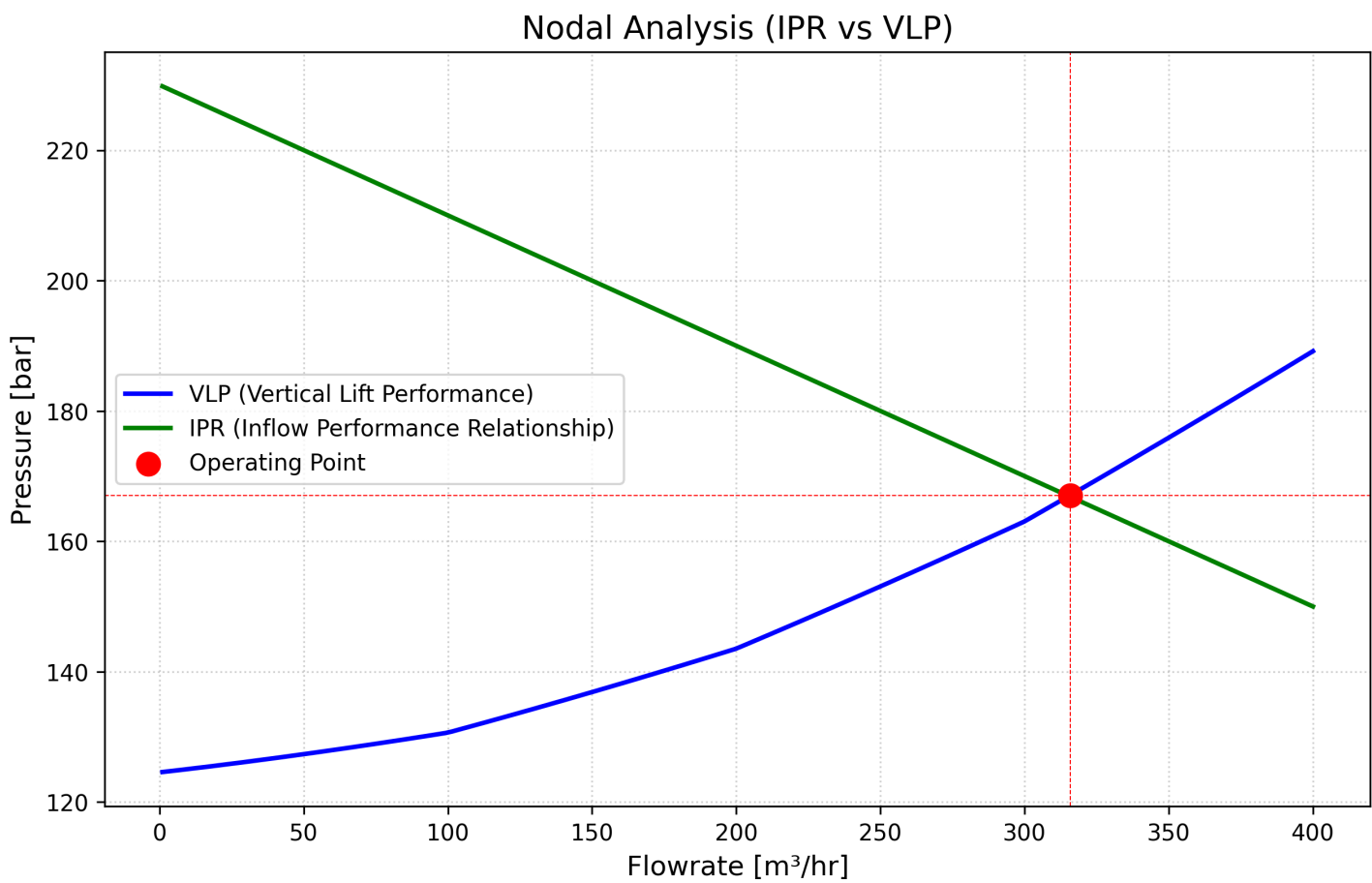
II. Operating Point

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

III. Extracted Parameters

Extracted Parameters	
Reservoir Pressure (bar)	230.0
Wellhead Pressure (bar)	10.0
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 Plot



V. Supporting Sources

Source 1: pdfFiles/ANDIJK-GT-01_2020_2025.xlsx Page: N/A					
Andijk Geothermie 1/2 ANDIJK-GT-01 ECW Geo Andijk B.V	2021-11	188258.8			
0	77186.1			0	
2750	NaN	NaN			
Andijk Geothermie 1/2 ANDIJK-GT-01 ECW Geo Andijk B.V	2021-12	229050			
0	93910.5			0	
3347	NaN	NaN			
Source 2: pdfFiles/ANDIJK-GT-01_2020_2025.xlsx Page: N/A					

Andijk Geothermie 1/2 ANDIJK-GT-01 ECW Geo Andijk B.V	2020-11	244322.37	
0	100172.2		0
4224.4	NaN	NaN	
Andijk Geothermie 1/2 ANDIJK-GT-01 ECW Geo Andijk B.V	2020-12	257580.07	
0	105607.8		0
3586	NaN	NaN	

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

Andijk Geothermie 1/2 ANDIJK-GT-01 ECW Geo Andijk B.V	2022-05	226448.293	
0	92843.8		0
2591.3	NaN	NaN	
Andijk Geothermie 1/2 ANDIJK-GT-01 ECW Geo Andijk B.V	2022-06	199786.8	
0	81912.6		0
1992.5	NaN	NaN	

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

Andijk Geothermie 1/2 ANDIJK-GT-01 ECW Geo Andijk B.V	2021-09	81635.824	
0	33470.7		0
1192.2	NaN	NaN	
Andijk Geothermie 1/2 ANDIJK-GT-01 ECW Geo Andijk B.V	2021-10	210407.394	
0	86267		0
2451.8	NaN	NaN	

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

Andijk Geothermie 1/2 ANDIJK-GT-01 ECW Geo Andijk B.V	2023-07	132468.26	
0	45039.2		0
1668.4	NaN	NaN	
Andijk Geothermie 1/2 ANDIJK-GT-01 ECW Geo Andijk B.V	2023-08	64401.35	
0	21896.5		0
811.1	NaN	NaN	

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

Andijk Geothermie 1/2 ANDIJK-GT-01 ECW Geo Andijk B.V	2023-11	150334.434	
0	61637.1		0
1893.3	NaN	NaN	
Andijk Geothermie 1/2 ANDIJK-GT-01 ECW Geo Andijk B.V	2023-12	175110.739	
0	70044.3		0
2218.2	NaN	NaN	