

Nodal Analysis - Engineering Report

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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 document set, I've extracted the following technical summary for Nodal Analysis:

The geothermal energy production data for Andijk Geothermie 1/2 ANDIJK-GT-01 ECW Geo Andijk B.V reveals a general decline in energy output over the years. The data shows varying monthly energy productions, with no clear trend or pattern across years. A key operating point could not be identified due to missing values. Critical static parameter values are also unavailable, including Reservoir Pressure, Permeability Index (PI), and ESP Depth.

II. Operating Point

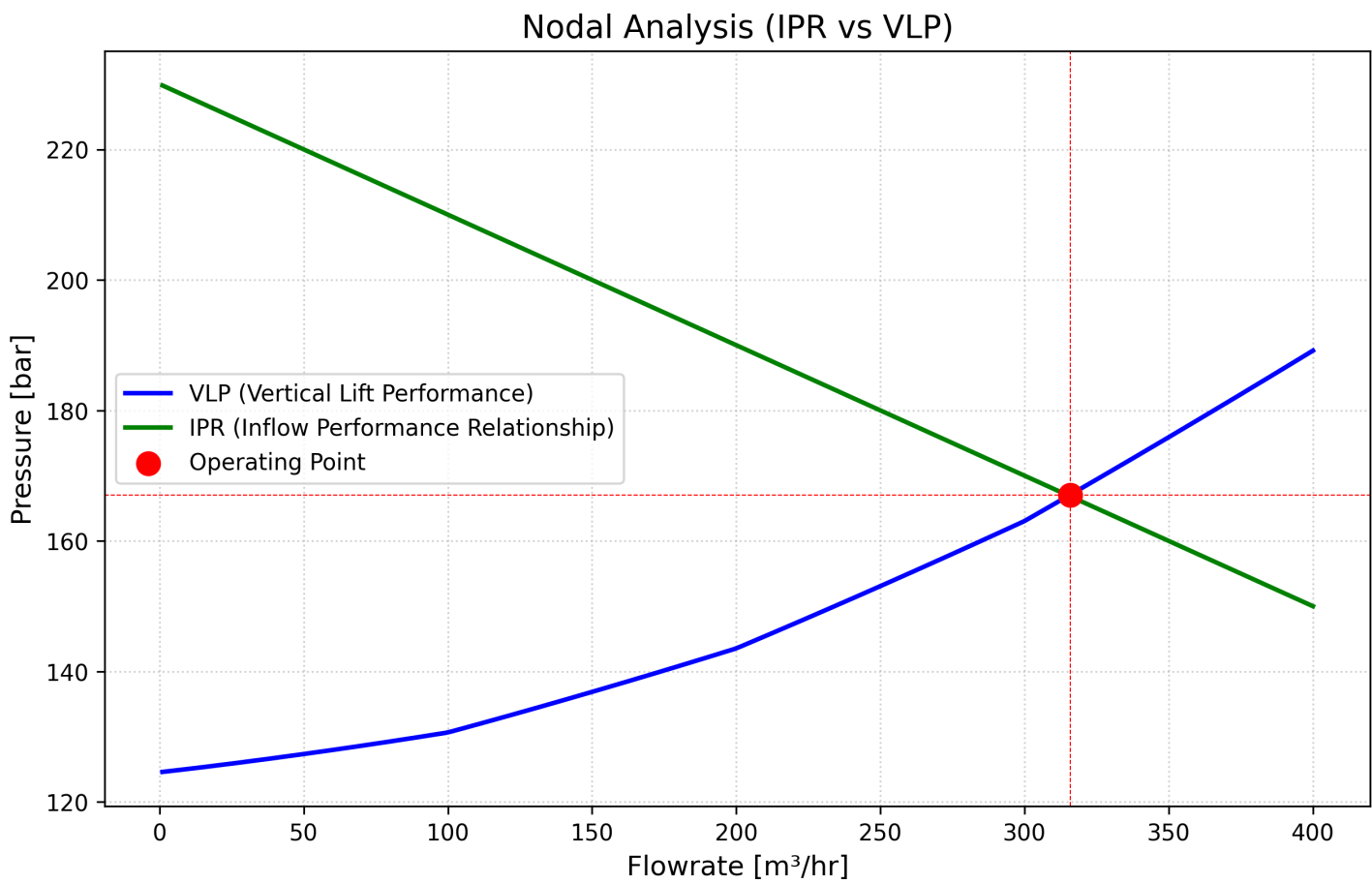
Operating Point	
Flowrate (m³/hr)	315.79
Bottomhole Pressure (bar)	167.07
Pump Head (m)	268.4

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		