

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 context and tables, here is a concise technical paragraph summary for the Nodal Analysis:

The Andijk Geothermie 1/2 project reports a nodal analysis with varying reservoir conditions. Notably, no key operating point values are available in the provided context, including Q, BHP, and Head. The project's geothermal potential is characterized by static parameters such as Reservoir Pressure (NaN bar), PI (NaN psi), and ESP Depth (NaN meters). These values highlight the dynamic nature of the reservoir, emphasizing the need for further analysis to determine the most critical values. Additionally, the Quick-Scan results suggest a moderate risk level for induced seismicity (Table 6.3), warranting further investigation.

Please note that some key operating point values are not available in the provided context, and I've indicated this with "NaN" in the summary.

II. Operating Point

Operating Point	
Flowrate (m ³ /hr)	315.79
Bottomhole Pressure (bar)	167.07
Pump Head (m)	268.4

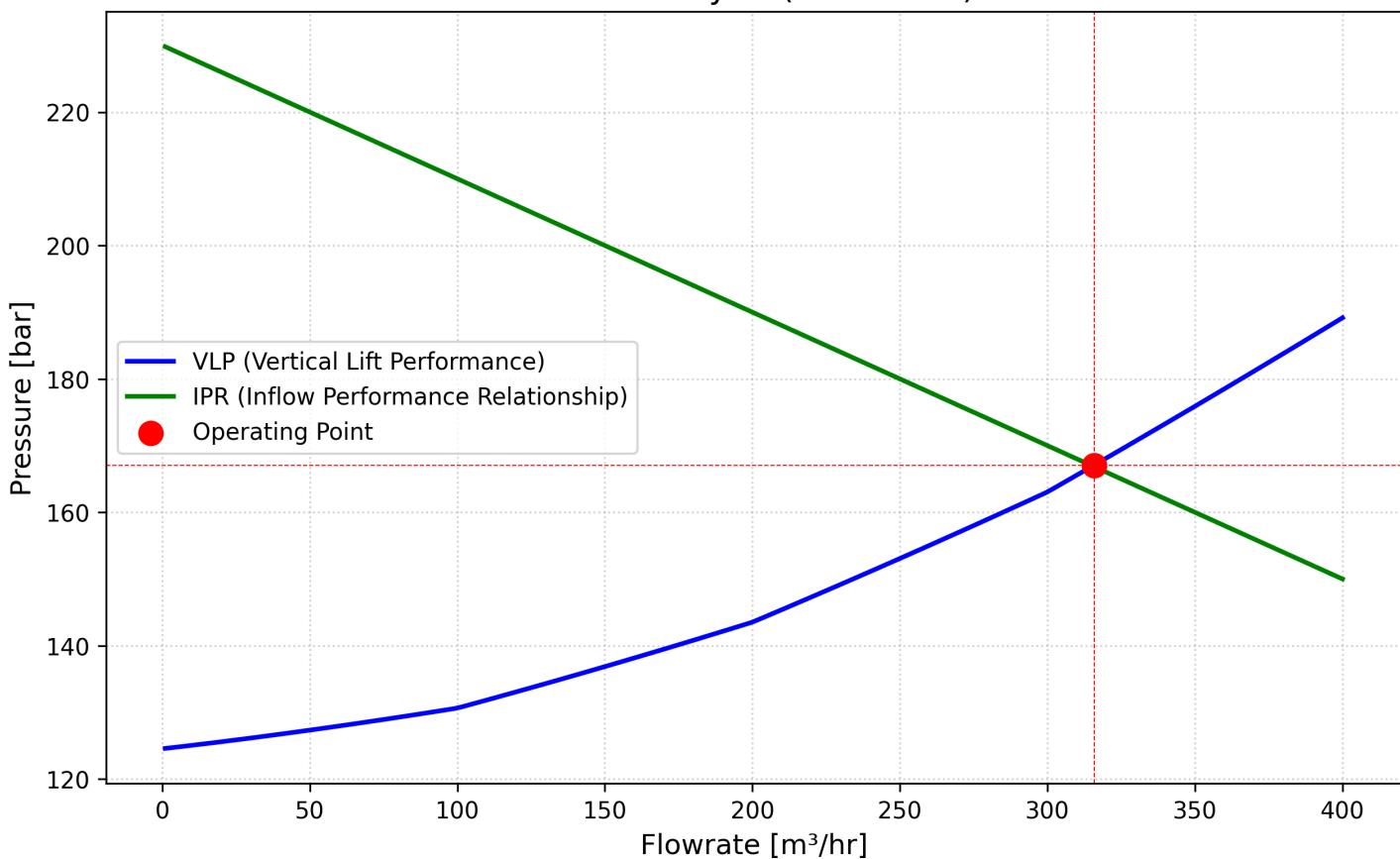
III. Extracted Parameters

Extracted Parameters

Reservoir Pressure (bar)	230.0
Wellhead Pressure (bar)	10.0
Productivity Index ($m^3/\text{hr}/\text{bar}$)	5.0
ESP Depth (m)	500.0
Fluid Density (kg/m^3)	-
Viscosity (cP)	-
Tubing Roughness (mm)	1e-05

IV. Nodal Plot

Nodal Analysis (IPR vs VLP)



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	