Thaddeus Okonkwo-Brandvold

Petroleum Engineer, Production and Reservoir

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SUMMARY

Petroleum engineer with 6 years in Permian Basin production and reservoir work. Manages artificial lift and surveillance for 140 horizontal wells producing about 9,800 barrels of oil equivalent a day, and led a gas-lift to rod-pump conversion program that cut lifting cost by 18%. Comfortable moving from decline analysis to field visits in the same week.

EXPERIENCE

Production Engineer — Redmesa Caprock Energy

Midland, TX · Mar 2022 – Present

- Manage artificial lift design and surveillance for 140 horizontal Wolfcamp and Spraberry wells producing about 9,800 BOE a day.
- Led a conversion of 36 late-life wells from gas lift to rod pump, lowering lifting cost by 18% and freeing 4 MMcf a day of compression capacity.
- Built a daily exception report from SCADA data that flagged 22 underperforming wells in its first quarter, recovering roughly 600 BOE a day.
- Cut average workover time from 6.5 to 4 days by standardizing rod and tubing failure analysis with the field team and 2 service vendors.

Field Engineer — Lonepine Well Services

Odessa, TX · Jun 2020 – Feb 2022

- Supervised 85 hydraulic fracturing stages across 12 wells, tracking pressure and proppant data and keeping screen-outs to 2.
- Wrote post-job reports for 9 operator clients that compared pumped volumes against design within 3% on average.
- Reduced water-hauling cost by $210,000 on one pad by planning produced-water reuse with the client's logistics team.

SKILLS

Production: Rod pump design, gas lift, ESP selection, nodal analysis, decline curve analysis

Reservoir: Material balance, rate transient analysis, waterflood surveillance, reserves booking support

Software: PHDwin, Aries, Prosper, Harmony, Spotfire, Excel, Python (pandas)

Field and safety: Workover planning, H2S awareness, SafeLand, MMS/permit-to-work

CERTIFICATIONS

Engineer in Training (EIT), Texas

SafeLand USA

EDUCATION

B.S. Petroleum Engineering, Texas Tech University, 2020

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