

Ben MacFarlane – Power BI Developer, Data Consultant & Forecaster

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WORK EXPERIENCE

Founder, Power BI Developer, Data Consultant & Forecaster - Blackbird BI, LLC - Johnstown, CO **09/2018 – Present**

- Successfully migrated 56 Tableau data report pages to Power BI for Qorvo Semiconductors during a six-month contract ending Nov 2024. Effectively translated complex logic, replicated look and usability, and helped new and experienced Power BI developers when they hit roadblocks.
- During 22 months as a full-time contractor for FirstLight Analytics in 2022-2024, I successfully developed SQL and Power BI solutions for 7 different companies with drilling, production, financial, manufacturing, and other metrics.
- Created data architecture and deployed automated workflows on Microsoft Azure, SQL, and Power BI to optimize data collection, processing, and visualization for Blackbird and 13 other businesses since 2018: 4 oil and gas producers, 3 manufacturers, 2 energy analytics firms, 2 midstream companies and 2 large mineral owners.
- Reliably engineered and administered Blackbird’s Microsoft tenant to host the ETL process, SQL database and Power BI reports for a large mineral owner since 2019 with 99.9% uptime on twice/daily refresh.
- Orchestrated cross-functional collaboration with key stakeholders, clarifying metrics and enhancing usability.
- Created SQL stored procedures and ran sequentially with Azure Data Factory to forecast oil and gas production by county in the U.S. across 10 potential scenarios; displayed results in Power BI so users can run sensitivities and optimize strategic planning decisions.
- Condensed 80 million rows of production data into a concise Power BI dashboard, empowering users to analyze monthly production metrics and natural decline trends of 1.4 million U.S. wells, facilitating data-driven insights.

Principal Analyst of Strategy & Optimization - DCP Midstream - Denver, CO **08/2012 – 08/2018**

- Championed creation of optimization model to determine ethane rejection levels for fleet of gas processing plants; collaborated with Commercial and Operations teams to validate results and communicate adjustments, resulting in a substantial \$1 million/month increase in earnings.
- Analyzed and forecasted throughput, cash flow, and net present value for high-value capital projects and M&A transactions of \$150M - \$3B, providing critical insights for strategic decision-making.
- Delivered regular executive-level reports and presentations on oil, gas and NGL market trends and emerging opportunities, enabling leadership to make informed strategic decisions.
- Executed financial planning and analysis of \$1.5B in capital spend, scrutinizing budget deviations and performance against forecasts; delivered comprehensive reports ensuring heightened transparency and accountability.

Senior Analyst of Oil, Gas & NGLs - S&P Global (BENTEK Energy) - Evergreen, CO **08/2007 – 07/2012**

- Analyzed, forecasted, and presented comprehensive market insights on supply, demand, constraints, and pricing of energy commodities, contributing to successful consulting engagements and client relationships, and establishing credibility as a thought leader in the oil and gas industry.
- Devised and implemented automated data architecture and models and wrote content highlighting key insights for over 1,000 clients weekly, directly contributing to substantial ~5x surge in company revenue between 2007 and 2012.

Gas Plant Operator - DCP Midstream - Weld County, CO **02/2002 – 02/2007**

Mechanic & Sergeant - U.S. Army - Schweinfurt, Germany **11/1997 – 05/2001**

EDUCATION

M.S. Mineral & Energy Economics - Colorado School of Mines - Golden, CO - GPA 3.8 **08/2006 – 12/2007**

B.S. Business and Religion - Liberty University - Lynchburg, VA - GPA 3.4 **08/1993 – 05/2006**

SKILLS

Data modeling, Power BI, DAX, M, Excel, ETL, Azure, SQL, AWS Athena, S3, Alteryx, WordPress, ArcMap, analytics, oil & gas markets, forecasting, energy economics, finance, reporting, strategy, optimization, consulting, agile methodology.