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## CURRICULUM VITAE

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### EVERALD G. CUMMINGS

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#### EXECUTIVE SUMMARY

Senior Petroleum Engineer & Energy Transition Leader with 20+ years global experience driving upstream production, gas storage & subsurface integrity, and sustainable energy innovation. Proven record delivering >1.1 bcf/d gas production, managing \$400M+ capital programs, enhancing reservoir integrity and advancing carbon capture and storage (CCS) initiatives. Combines deep petroleum expertise with leadership in cross-functional team management, decarbonization, CO<sub>2</sub> EOR, and energy transition strategy. Adept at aligning technical performance, regulatory compliance, and sustainability outcomes for organizational growth and climate goals.

#### LEADERSHIP SNAPSHOT

Directed \$400M+ capital programs • Delivered >1.1 bcf/d gas production • Led 80+ technical staff • Advanced CO<sub>2</sub> EOR & CCUS initiatives • Guided national CCUS Atlas assessing >1 Gt CO<sub>2</sub> storage capacity • Extensive operational experience across all segments of the Oil & Gas value chain.

#### CORE COMPETENCIES

Reservoir & Production Optimization | Well Integrity Management | Drilling & Completions | Integrated Asset Modeling (IAM) | CCUS & Carbon Management | Sustainability & Energy Transition | API RP 1171 Compliance | Project & Risk Management | Multidisciplinary Team Leadership | ESG Strategy Implementation | HSE & Regulatory Compliance | Stakeholder Engagement

#### PROFESSIONAL EXPERIENCE

**Senior Storage Reservoir Engineer — SoCalGas, California (Contract via TSG Consulting)** May 2023 – Dec 2024

- Served as Subject Matter Expert within the Integrity Management & Strategic Planning unit, developing a risk-based integrity management framework for underground natural gas storage reservoirs.
- Led integrity management and strategic planning for underground natural gas storage reservoirs in depleted hydrocarbon fields, ensuring compliance with API RP 1171 and CalGEM regulations, performing technical risk assessments and supporting integrity assurance programs.
- Developed and implemented reservoir integrity management frameworks improving risk mitigation and system reliability.

- Performed reservoir integrity assessments on all operational natural gas storage reservoirs to satisfy integrity assurance requirements stipulated by the State regulator.
- Conducted risk and threat assessments, reviewed engineering analyses, and advised on capital improvements.
- Advanced ESG aligned strategy integrating safety, compliance, and decarbonization objectives.
- Mentored junior engineers and contributed to company-wide standards for gas storage and integrity management.

**Research Associate – Carbon Capture & Storage (CCS) Atlas Project — University of Trinidad & Tobago** Dec 2021 – Dec 2022

- Co-led a national CO<sub>2</sub> storage capacity assessment of depleted hydrocarbon reservoirs and deep saline aquifers using CMG and MBAL modeling.
- Quantified >1 Gt CO<sub>2</sub> storage potential across six sedimentary basins, contributing to T&T's Paris Agreement commitments and ultimate target of 15% GHG reduction.
- Collaborated with UTT, UWI, MEEI, BP, and Heritage Petroleum on site ranking, risk analysis, and geological modeling.
- Generated essential geological storage capacity and suitability results to support national CCUS strategies and EOR applications for mature hydrocarbon reservoirs.

**Senior Petroleum Engineer — BP Trinidad & Tobago** Jun 2008 – Apr 2018

- Led reservoir management, well integrity, and production optimization for offshore platforms within the Greater Mahogany & Cashima assets, responsible for ~50% of bpTT's total gas output (>1.1 bcf/d).
- Directed a \$300M hydraulic workover campaign increasing gas deliverability by 300 mmscfd and extending platform life by eight years; achieved zero HSSE incidents
- Implemented sand conditioning and choke optimization techniques and procedures, increasing well productivity by up to 25%.
- Supervised teams of engineers, technicians, and offshore personnel (80+ staff) across several platforms, managed HSSE, well integrity, and ensured operational excellence and maximized natural gas deliverability potential.
- Served as Single Point Accountability for major projects: Cannonball, Sand Conditioning & Consolidation, and several other production enhancement initiatives.
- Developed the Production Management Strategy governing all well operations and optimization procedures.

**EARLY CAREER HIGHLIGHTS**

- Well Site Leader — BP Exploration, North Slope Alaska (2006)
- Well Integrity / Well Intervention Engineer — BP Trinidad & Tobago (2004–2008)
- Drilling Engineer — BP Trinidad & Tobago (2002–2004)
- Sustainable Energy Consultant — United Nations Development Programme (UNDP), New York (1999–2001)

- Data Management Specialist — UNDP Technical Cooperation among Developing Countries (TCDC), New York (1997)

## **ENERGY TRANSITION & SUSTAINABILITY HIGHLIGHTS**

- Led Carbon Capture Utilization & Storage (CCUS) Atlas initiative mapping CO<sub>2</sub> sequestration potential and identified > 1 Gt CO<sub>2</sub> storage potential for national CCUS deployment and supported associated CO<sub>2</sub> EOR planning.
- UNDP Sustainable Energy consultant evaluating renewable energy projects globally.
- Contributor to Energy Chamber of Trinidad & Tobago webinar dialogues on Hydrogen Strategy, Natural Gas Dynamics, LNG, and renewables.
- Integrated petroleum operations with sustainability and ESG innovation across CCUS, renewable alignment and decarbonization initiatives.

## **EDUCATION**

Master of Engineering, Chemical Engineering — City College of New York (CUNY), 2000 | GPA 3.4/4.0

Bachelor of Engineering, Chemical Engineering — City College of New York (CUNY), 1998 | GPA 3.42/4.0

## **TECHNICAL TRAINING & COURSES (Petroskills / DTA Certified)**

Basic & Advanced Reservoir Engineering • Well Integrity Management • Completions & Well Interventions • Advanced Integrated Asset Modeling • Production Optimization • Petroleum Economics • Casing & Cementing Design • Drilling Engineering & Well Planning • Artificial Lift Systems • Gas Production Engineering • Reservoir Surveillance • Subsurface Risk Management • BP Certified Leadership & Management • Sand Control • Well Test Design & Analysis • Subsurface Integrated Fundamentals • Subsurface Principles & Practices • BP Wireline School Downhole Remediation Practices • Completion Practices • Well Integrity School

## **CERTIFICATIONS & HONORS**

Professional Engineering Training (*BP Global Leadership Programs*) • ISO 14001 (*Environmental Management*) Awareness • API RP 1171 Compliance Framework Development • NEBOSH HSE Fundamentals • BP Certified Leadership Training • Omega Chi Epsilon – Chemical Engineering Honor Society • Tau Beta Pi – National Engineering Honor Society • Order of the Engineer • The National Dean’s List (1997–1998)

## **SOFTWARE & TOOLS**

PROSPER • MBAL • GAP • CMG Suite (Builder, GEM, IMEX, STARS, CMOST) • OLGA Dynamic Modeling • Compass • StressCheck • OpenWells (DIMS) • Landmark DSWIM • Experion • Uniformance • SharePoint • WETS • Bean-up Toolkit • Microsoft Project • Aspen Plus • Mathcad • MS Office • Power Bi • SAP / ERP Software Applications • SCADA • Integrated Surveillance Information System (ISIS Oil & Gas Well Surveillance) • Maple V • Fortran • CoFlow-X • Documentum