Mark D. Goldsmith, P.E.

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Summary

Seasoned Petroleum Engineer with 40 years in upstream oil & gas. Diversified operations and engineering experience across the complete well life cycle from geological origination & drilling through production.

Experience

10/2014 – present Independent Consultant Houston, TX
Petroleum Engineering Consultant:

- Oil & Gas Litigation Consulting: providing expert witness testimony involving engineering or operations aspects of oil and gas wells.
- Oil & Gas private placement review and advisory consultancy. Assisting private investors with evaluation of oil & gas prospect investment opportunities, primarily in onshore US plays.

12/2016 – 9/2018 SDS Drilling Services LLC Houston, TX
President:

- Leading Drilling Contracting Company in Texas Gulf Coast. Divested assets 9/2018.
- Applies solid engineering solutions to complex drilling projects.
- Reviews and evaluates geological/geophysical risk aspects, project cost and mechanical risk profile.

2/2011 – 10/2014 Consultant to BP Global & BP America Houston, TX
Drilling Engineering Training Program Lead / Coach - Led "*Drilling Engineer of the Future*" training program (a 15-month full-time program for high-caliber, experienced engineers from different industries, cultural backgrounds, and nationalities):

- Responsible for procurement of training, continuous improvement/adaptation of existing training program, student competency/performance assessments, & post-graduation placement advisory.
- Coached engineers for technical and leadership progression including mentoring students one-on-one. Facilitated hands-on training workshops and conducted field training on drilling locations.

Well Intervention Engineer:

- Designed well intervention proposals for onshore North America unconventional oil & gas well stock, including CBM, shale, & tight gas in Texas, New Mexico, & Colorado areas.
- Developed engineering studies for basis of design standards, cost control and well performance enhancement methods.
- Supervised field operations remotely from office for execution of intervention well work.

Well Integrity Engineer:

- Collaborated with my team to develop and implement BP's *Well Integrity Management System* for onshore US well assets comprising 12,000 wells in response to BP's Gulf of Mexico Macondo event.
- Improved well integrity processes across US onshore legacy well stock by leveraging my 30+ years experience in historical well design evolution.
- Performed root cause failure analysis (RCFA) on special problem wells and applied internal RCFA studies for improvement of BP well integrity definitions and standards.
- Incorporated Risk Assessment modeling tools to identify undiscovered well integrity problem wells.

10/1983 – 1/2011 Independent Consultant & Operator Houston, TX
Petroleum Engineering Consultant / Independent Operator: - Provided multi-faceted petroleum engineering services to independent oil & gas companies in Texas and surrounding states. Operated wells with Texas RRC from 1989 to 2010 including drilling, producing, and decommissioning.

Experience/Competencies:

- **Oil & Gas Upstream Well Engineering** – Drilling (rigs, turnkeys, wellhead/tubulars design, drilling mud, high pressure/high temperature design, directional, side-tracking, fishing, cementing,

environmental footprint mitigation), Completion/Intervention (special tubulars, perforating, squeeze cementing, stimulation, artificial lift design), Production (well performance monitoring, processing facilities), Reservoir (well testing, reserves estimation, reservoir management, secondary recovery).

- **Oil & Gas Upstream Operations** – HSSE (audits/risk assessments, well control, H2S, high pressure/high temperature, safety), Drilling (landowner negotiations, right-of-way purchase, road building, land clearing, drill-site earthwork, pits and ponds, drilling rig mobilization, well-site supervision), Production (pipeline & surface facilities installations & maintenance, product sales/metering), Well Decommissioning (plugging & abandonment, reclamation).
- **Legal** – Reviewed engineering aspects of Operating/Partner/Ownership Agreements, Drilling Contracts, Turnkey Drilling Contracts, O&G Sales Contracts, mineral/land leasing, title assurances.
- **Regulatory** – State & local regulatory compliance, bonding, regulatory liaison/negotiations, expert witnessing, hearings, permits, reporting to state, environmental remediation.
- **Geological** – Geological and geophysical mapping, seismic design & execution, geological interpretation, well cost estimation, project economics.
- **Geographic Exposure** – 90% Texas onshore (Gulf Coast, South Texas, East Texas, West Texas, Panhandle), 10% Other: Illinois, New Mexico, Colorado, Utah, Oklahoma, Louisiana, Mississippi, Arkansas, Missouri, Kentucky, Virginia, Wyoming, Nevada, California, Bolivia.

3/1982 – 10/1983 Mills Bennett Estate Houston, TX
Drilling & Production Superintendent:

- Managed and engineered drilling and production operations located in the Texas Gulf Coast.

7/1981 – 3/1982 Callon Petroleum Company Houston, TX
Petroleum Engineer:

- Reservoir Engineering & Financial Analysis for public drilling funds onshore & offshore USA.

1/1979 – 7/1981 Texas Oil and Gas Corporation Houston, TX
Area Production Engineer:

- Production engineering, completion and work-over operations in upper Texas Gulf Coast district.
- Previous positions **Production Engineer**, **Field Completion Engineer**, and **Field Drilling Engineer**.

Education/Certifications/Affiliations

BS Petroleum Engineering – 1978 – University of Texas at Austin
Registered Professional Engineer (Texas Lic #055216 since 1984)
Well Control (IADC WellCap – WCS) for Drilling/Workover/Completion 5-day 12/05/2013
Well Control (IADC WellCap – ITC) Compl/Workover/CoilTubing/Snub/Wireline Supv 5-day 12/09/2011
Society of Petroleum Engineers, Member
Houston Geological Society, Member

Training

Casing Design (GWI) 5-day	08/15/2014
Directional Drilling (GWI) 5-day	07/19/2014
Drill String Design (GWI) 5-day	07/11/2014
Well Completions & Interventions - Offshore & Onshore (GWI) 5-day	06/27/2014
OpenWells Software (Landmark-Halliburton) Well data & evaluation system 1-day	06/20/2014
Cementing (GWI) 5-day	05/23/2014
Drilling & Completion Fluids (GWI) 5-day	05/16/2014
Well Planning Drilling/Completion Offshore & Onshore – (GWI) 3-day	05/09/2014
Deepwater Drilling Operations & Planning – (JMS Consultants - John Shaughnessy) 5-day	05/02/2014
HSSE for Field Operations (GWI) 1-day	03/03/2014
Well Design (Landmark-Halliburton) Comprehensive 5-day	12/20/2013
Stuck Pipe Prevention – Train Wreck Avoidance (Petroskills) 3-day	12/11/2013
Safety Culture Leadership (GWI) 2-day	11/21/2013
7 Habits of Highly Effective Leaders (GWI) 4-day	11/19/2013
Winter Driving / Driver Fatigue Awareness / Driving Safety (Denver) 3-day	10/29/2013
Tight Oil Technical Workshop (Hanson-Wade)	01/31/2013
Halliburton Slickline Course (Halliburton) 2-day	11/29/2012
Completion Workshop (BHI – Baker Hughes) 2-day	09/20/2012
Shale Gas Reservoirs (Core Labs)1-day	04/04/2012