WYATT METCALF

**DRILLING MANAGER**

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I am a Drilling Manager / Lead Engineer / Superintendent who has worked domestically in the United States and internationally in 20 countries *(Australia, Cambodia, China, Ghana, Kurdistan, Mauritania, Morocco, Nigeria, Papua New Guinea, Peru, Philippines, Senegal, Sierra Leone, Singapore, Suriname, Thailand, United Kingdom, Venezuela, Vietnam, Western Sahara)* on land, swamp, jack-up, tender, platform, semi-submersible and drill ships projects. I have a strong operational background having started as a Drilling Rig Supervisor and progressed up the technical track as an Engineer.

In my career, I have been fortunate to have seen a wide scope of projects from fields produced under secondary and tertiary recovery methods to exploring for undiscovered reservoirs in frontier basins. Having worked in technically challenging and remote locations has allowed me to be well versed in a variety of advanced drilling techniques including horizontal, multi-lateral, extended reach, casing drilling, HTHP, managed pressure drilling, sub-salt, geothermal, deep water, sub-sea, hydrates production, fractured carbonates, H2S and CO2, deep, depleted reservoirs, tight reservoir (frac completions), aqueous and non-aqueous drilling fluids, hydrates, shallow hazards, coil tubing, snubbing units, wireline, slickline, plug and abandonments, slot recovery and intelligent completions. I enjoy working on all phases of the well design; from working with sub-surface to assess prospects, designing the well, tendering and contract negotiations, performing risk management, supporting operations, rig site supervision and closing out projects.

I enjoy new challenges and helping others find the best solution to any problem. I have a calm/rational demeanor that allows me to observe the whole scope of the project and then dive in to address the issues with a high attention to details and contingency planning. This approach has served me well in my career as I have worked with some great team members to deliver world class projects on time, on budget and with excellent HSE results.

# CNPC, Beijing 2016-Present

# Operations Manager / Senior D&C Engineer, China

* Engineer responsible for the design and operational planning for Deep Water Gas Hydrate Production program in South China Sea (second pilot test ever in world after Japan 2013)
* First ever company operated deep water project. Train engineering staff in deep water operations, engineering design and industry best practices
* Drilling Superintendent responsible for new build 7th Gen semi-submersible rig, liaise with rig contractor and shipyard regarding rig acceptance, crew, project objectives and CNPC / third party contractor interface teams. Promoted to Operational Manager for client supporting offshore program; managing logistics, HSE and finance departments in addition to superintendent role
* Mentor additional engineering staff regarding operational improvements opportunities offshore

Project resulted in first ever successful production of gas hydrates from deep water, as highlighted in BBC article <http://www.bbc.co.uk/news/world-asia-china-39971667> Engineering design, operational planning and contractor coordination led to incident free operation with greater than 98% productive time on project involving new build rig and innovative, never before successfully deployed technologies.

# INTEROIL, Singapore 2015-2016

# Engineering Team Lead, Singapore / Papua New Guinea

# Organizational team lead responsible to develop exploration and appraisal well designs and programs (drilling, completion, testing, abandonment), oversee Operations Engineers in country

* Introduced new technology and improved well designs based upon review of offset trouble spots significantly reduced drilling time and delivered two fastest wells in company history (42% savings)

# Drilling point of contact with Subsurface G&G team

* Developed Corporate Governance documentation based upon industry global country regulations
* FEED work on Antelope / Elk LNG development drilling program

# Company operating 2-4 rigs in country. Wells are large capital projects, high rate sour gas wells in PNG basin drilling in fractured carbonate reservoirs (total losses) supported by helicopter logistics. Improved well design by modifying drilling fluid program, casing depths, cementing practices, wellhead and introduced new technologies like casing drilling, managed pressure drilling, and pressurized mud cap drilling to significantly reduce NPT events to deliver two fastest wells in company history. Additionally, designed an ERD well to reach a challenging target from existing jungle pad, proving well design for future developmental programs in region and designed a HTHP well adding significant additional resource to the company for much lower cost than believed possible.

# KOSMOS ENERGY, Dallas, Texas 2013–2015

# Senior Drilling Engineer Consultant, USA / Morocco / Mauritania

* Engineering Team Lead responsible for design of multiple deep-water exploration well projects and provide executional support in North West Africa
* Instituted a project development and execution process for well design programs which delivered two 1st quartile exploration wells and a third well on budget which established confidence in drilling departments’ capability to deliver projects on time and on budget
* Represented drilling organization on non-operated development on Ghana Jubilee and TEN projects
* Revised and further developed Corporate Governance documentation
* Mentored two junior engineers and supervised senior engineers while also developing projects

Wells are major capital deep-water projects in under explored frontier basins - Morocco, Western Sahara, Mauritania, Senegal, Ireland, Suriname and additional locations evaluated. Clastic or fractured carbonate reservoirs. Operated 6th Generation dual-activity semi-submersible and new build dual-activity drillship. Worked with stakeholders to develop well deliverables system based upon Statement of Requirement to evaluate alternatives, create Basis of Design, perform Risk Assessment, generate deterministic AFE costs, develop Logistic and Contracting requirements, deliver detailed Drilling Program, provide operations support during execution, capture and disseminate learnings and close out project.

# TALISMAN ENERGY, Calgary, Alberta 2011–2013

# Senior Drilling Engineer Advisor, Peru / Canada / U.K. / Kurdistan (2013)

# Acting Operations Manager supporting Peru country exit, liaising with National Oil Company and government entities

# Global Drilling Advisor on company special projects in Kurdistan (HTHP, sour, fractured carbonates, MPD, PMCD), North Sea (HTHP, multi-lateral, intelligent dual completions), Eagle Ford Shale projects (multi-lateral, frac completions) and New Ventures (Thailand, Vietnam)

# Transformed a faltering bioremediation program resulting in largest successful location based treatment of drill cuttings in contractors’ history, exceeding our EIA requirements

# Senior Drilling Engineer, Houston / Sierra Leone (2012 – 2013)

# Engineer responsible for design and execution support for wildcat deep-water exploration well in Sierra Leone

# Recognized by company gate review team and partners for excellence in drilling engineering design / planning before project execution and well was drilled with 1st quartile performance

# Major capital project developed on accelerated timeline due to rig of opportunity for new country entry. Well drilled with 6th Generation dual-activity drill ship with shore base support from Ghana. Project engineering design package became model template for company on special major capital projects.

**Senior Drilling Engineer**, Peru (2011 – 2012)

* Engineer responsible for exploration and appraisal drilling campaign using heli-transportable rig in Amazon jungle
* Successfully petitioned government to introduce SBM for use in Peru, first application of NAF in country for over 30 years and was carried out in environmentally sensitive area with support of native communities
* Engineered well design and team execution resulted in 52% reduction in time and 47% reduction in cost from recent offset wells
* Drilling team received Chairman’s Award (highest company recognition) for outstanding improvement in performance and work with stakeholders to add innovative technology to project to enable success

Major capital projects involving deep sour HTHP wells in faulted / tectonically stressed / highly reactive region at base of Andes Mountains with equipment support based upon river transport prior to helicopter movement. Review of recent drilling performance issues with outsider perspective allowed for modification in design which facilitated significant operational improvements by bringing in new technologies, modifying well design and providing education of drilling crews of best practices and signs and measures to correct potential issues resulting in savings of over 200 rig days on projects.

# CHEVRON, San Ramon, CA 2001 - 2011

**Senior Drilling Advisor / Drilling Superintendent**, Thailand (2010 – 2011)

* Supervisory drilling engineer responsible for mentoring junior engineers planning multiple well programs on offshore platforms while personally overseeing / designing more complex wells (HTHP, ERD, H2S, severe depletion, multi-lateral, dual completion etc.) and projects
* Acting Drilling Superintendent as required
* Contract owner for drilling fluids; duties included managing all wellbore fluid designs and resolving execution issues in addition to supporting operations in Cambodia and Vietnam. Design improvements reduced formation damage and introduced HPWBM to environmentally sensitive area to receive drilling permits
* Recognized for leading multidiscipline team to improve production start-up times an average of 22 days per platform by solving a water treatment issue

Moderate capital projects for high volume batch drilling operations on multiple jack-up and tender barges operating in Gulf of Thailand, including new platform development, in-field development, abandonment / well slot recovery / sidetrack development.

**Senior Drilling Engineer / Drilling Rig Supervisor**, Australia (2005 – 2010)

* Drilling engineer responsible for multiple drilling campaigns in North West Shelf of Australia. Duties included all phases of planning and execution (wellbore design, risk assessment, contracting & AFE costs, drilling program and procedures, MOC, and end of well close out) for both short and long-term campaigns of either land, moderate water depths or deep water
* Internal contract ownership: Drilling and Measurement, Wireline, Drilling Fluids, Cementing, Drill Bits, Solids Control, Tubular Running, Under-reamers and Rig Inspection Services
* Developed from Lead Drill Site Manager to Senior Drilling Engineer on unique projects from island drilling campaign in Class A Nature reserve including mobilization of entire campaign package, CO2 sequestration project, exploration / discovery and delieneation of giant gas fields for LNG developments (Gorgon and Wheatstone), oversight of shipyard rig modification and upgrades, island in-field oil development campaign, appraisal wells including ERD with longest reach in BU history and engineering support for multiple rig campaign with highest spread rate in Chevron’s history
* Assignment to lead Phillipines geothermal exploration wells on Kalinga prospect

Moderate to large capital projects covering exploration / appraisal / development programs varied. remote land, jack-up and semi-submersible (moored and dynamically positioned) drilling rigs with diverse well designs (vertical exploration, high data acquisition appraisal with DST, tight tolerance, high deviation / horizontal, multi-lateral, ERD development, HTHP, CO2 Sequestration, gas/oil, sour, tight margin).

**Drilling Rig Supervisor / Drilling Engineer**, New Orleans, LA (2003 – 2005)

* Senior Drilling Rig Supervisor for drilling and completion, work over and abandonment of oil and gas wells offshore utilizing jack-up, platform and semi-submersible floater rigs in the Gulf of Mexico.
* Planning engineer: offset reviews, well design, costs, planning, risk assessment, optimization, SIMOPS, completion designs for multi well platform drilling campaign, in addition to workover / recompletions.
* Designed and supervised multi-well recompletion campaign with snubbing unit due to marginal economics with conventional rig.

Medium capital projects in moderate water depths (50-1500 m) with directional well designs and gravel pack completions. HTHP and sour service wells included.

# Drilling Rig Supervisor / Drilling Engineer, Bakersfield, CA (2001-2003)

# On-site rig supervisor for drilling and work over operations onshore wells in regions around Bakersfield, including HPHT and UBD operations.

Projects are low cost diverse oil production methods (steam flood, cyclic steam injection, hydraulic fracturing, water flood, multi-lateral dual completions). Drilled numerous shallow directional wells (300 m – 1000 m TVD), horizontal (2000 m TVD / 5000 m MD) and vertical gas wells (6000 m TVD).

# WHITE MOUNTAIN FUELS, LLC, Snowflake, AZ 2007–2010

**Member of Board of Directors**

* Advisory member of fuel distribution and marketing company with operations in Arizona and New Mexico.

# AMERICAN ENERGY OPERATIONS, INC, Glendale, CA 1998-2001

**Petroleum Engineer, Long Beach Oil Development Company**

* Performed property analysis / development strategy of recently acquired leases, redesigned processing facilities to optimize current and future production ratios, conducted energy and environmental audits and worked as a production operator.

# TEXACO NORTH AMERICAN PRODUCTION, Bakersfield, CA 2000

**Petroleum Reservoir Engineering Intern**

* Developed an oil production allocation to the various sands within the reservoir, mapped out well drainage looking for areas of untapped reserves and developed plans to recover these reserves.

# EDUCATION

**Penn State University,** Malvern, PA

* Master of Engineering Management, coursework towards completion

**University of Southern California**, Los Angeles, CA

* Bachelor of Science, Chemical Engineering, Graduate with Honors (GPA 3.6) - Ranked 2/28
* Bachelor of Science, Petroleum Engineering, Graduate with Honors (GPA 3.7)

## TRAINING AND ACHIEVEMENTS

**IWCF Supervisor Level 4** (Surface / Subsea) **-** October 2015

**BOSIET**

**Drilling Engineer Software Suite** (Landmark: Casing Seat, Compass, Stress Check, Well Plan, Well Cat, Openwells; DIMS, Wellview, P1)

**Chevron training courses** (Casing Design, Cementing, Completion Design, Completion and Well Intervention, Deepwater Drilling, Directional Drilling, Drill String Design, Drilling Engineering and Well Planning, Drilling Fluids, Drilling Practices, Floating Drilling, HPHT Drilling and Completions, Sand Control, Solids Control, Sour Service, Subsea Drilling Equipment)

# Languages: English – fluent, Spanish – professional working proficiency

**Awards:** CNPC High Praise Award 2017, Talisman Energy Chairman’s Award 2012, Chevron Managing Director Award 2011, Chevron Peer Award for Mentor 2008, SPE Academic Achievement 1999 and 2000, Eagle Scout 1994