Mohamed Karam Abdo Refaei

Drilling & Workover Rig Supervisor | Wellsite Drilling Supervisor

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PROFESSIONAL SUMMARY

Drilling and workover rig supervisor at Khalda Petroleum Company (KPC), Western Desert, Egypt, since 2008. Supervised 100+ wells and 100+ workovers onshore, including HPHT wells (8,000 psi, 380°F) and depths to 16,000 ft. Rig supervisor on the EDC 62 team that drilled the fastest well in KPC history (7.44 days, 916 ft/day) and delivered three wells in October 2026. Strong in well control, casing and cementing programs, directional drilling, completions and well interventions. Also a reservoir engineer, now Department Head, which helps with well planning and testing.

CORE SKILLS

- Drilling operations supervision: vertical and directional wells to 90° and 16,000 ft; HPHT drilling
- Well control: BOP and wellhead pressure testing, well killing (up to 6,000 psi), LOT/FIT tests
- Casing and cementing programs; casing strings 13-3/8 in, 9-5/8 in, 7 in, 5 in
- Mud systems, solids control, bit performance (IADC), wireline logging
- Workover and completions: ESP and sucker-rod strings, gas completions (carbon steel and chrome)
- Perforation: TCP underbalanced and wireline overbalanced
- Coiled tubing: nitrogen lifting, acidizing, hydraulic fracturing
- Fishing, water shut-off, casing leak repair (remedial cementing, internal and external casing patches)
- Daily drilling reports (DDR), rig inventory, cost and AFE control; HSE compliance
- **Software:** WellView, Ecrin, Petroleum Experts, ECLIPSE, IP, Bivus, Harmony, Well Navigator, WellStream, MS Excel

KEY ACHIEVEMENTS: EDC 62 RIG TEAM (OCTOBER 2026)

Onshore NOV 1500 HP rig, Egyptian Drilling Company (EDC). Role: rig supervisor.

- Delivered three wells in one month.
- **Fastest well:** fastest in KPC history, 7.44 days at 916 ft/day, with the lowest well cost in 9 years. 19.4% under AFE and 2.5 days (25%) ahead of a 10-day dry-hole plan.
- **Third fastest well:** 799 ft/day in KPC history. 20.8% under AFE and 3.5 days (29%) ahead of a 12-day cased-hole plan.
- Results came from connection and tripping time averaging 7.6 minutes per connection on both wells, minimal flat time, and bit and BHA selection (Halliburton ERT motor, TKC66 bits).
- Top hole: 2,700 ft in 20.5 hours and 2,670 ft in 19.5 hours. Production hole: 4,135 ft in 23 hours and 4,115 ft in 20 hours.

PROFESSIONAL EXPERIENCE

Khalda Petroleum Company (KPC), Western Desert, Egypt | 2007 – Present

- Drilling & Workover Rig Supervisor | 2008 – Present
- Reservoir engineering career: First Engineer (2007), Engineer (2011), Senior Engineer (2014), Department Head (2019 – Present)

Drilling operations

- Supervised day-to-day drilling on location, directing rig crews, contractors and service companies against scope and budget.
- Drilled vertical and directional wells up to 90° and 16,000 ft; set drilling parameters and reviewed bit performance against IADC standards.
- Supervised BOP and wellhead pressure tests and the installation of casing heads, hangers, tubing heads and X-mas trees.
- Worked with geologists and engineers on drilling strategy; prepared casing-specific cement programs and ran LOT/FIT tests.
- Managed mud systems and solids control for hole stability; supervised wireline logging.
- Kept daily drilling reports in WellView and Excel; maintained rig inventory and material requisitions.
- Applied company HSE and environmental standards at every stage.

Workover and completion operations

- Killed oil and gas wells across a range of profiles, including high-pressure cases up to 6,000 psi.
- Ran ESP and sucker-rod completion strings and gas completions in carbon steel and chrome.
- Ran underbalanced perforation with TCP guns and overbalanced programs with wireline casing guns.
- Led fishing jobs, water shut-off and casing leak repairs with remedial cementing and casing patches.
- Supervised coiled tubing work, including nitrogen lifting, acidizing and hydraulic fracturing programs.

Reservoir engineering: well testing, development planning and horizontal-well studies (NRQ-2556H, Razak area), which inform well design and drilling decisions.

Reservoir Engineering Consultant, on assignment with INA, Egypt | 2018 – 2019

CERTIFICATIONS

- IADC WellSharp: Drilling Operations, Supervisor, Surface (valid until 12 December 2026)
- IWCF Well Control Level 4, Surface BOP Stack (expired May 2025; renewal booked February 2027)
- NEBOSH International General Certificate in Occupational Health and Safety (2022)

EDUCATION

- B.Sc. Petroleum Engineering, Cairo University, May 2006 | Very Good (75.93%)
- IPEP Diploma, Colorado School of Mines, November 2007

SELECTED TRAINING

- Well Completion and Workover Procedures (ENPPI, 2024)
- IWCF Well Control Levels 3 and 4 (ENPPI, 2023)
- Drilling Practices; Drilling Problems and Optimization (Drilling School, 2023)
- Stuck Pipe and Fishing Operation (Egyptian Drilling Company, 2022)
- NEBOSH Risk Assessment (OGS, 2022)
- Drilling Problems (SPE, 2018)
- HPHT Drilling Operations (OGS, 2016)

LANGUAGES

Arabic: native | English: advanced / fluent | Russian: moderate