

**101870-MMP-4DOS-E-1999**  
**Operation Support Process Lead**

Holds a B. Sc. in Petroleum Engineering and has over 19 years of experience within the oil & gas industry in both design and operation. Extensive knowledge and skills in brownfield de-bottlenecking, greenhouse gas emissions and energy efficiency, plant/pipeline steady state modeling with UNISIM/HYSYS/PIPESIM, multiphase pipelines flow assurance, depressurization calculation, SRV sizing.

## PERSONAL DATA

Nationality : Egyptian  
Gender : Male  
Residence : El-Shorouk, Cairo

## EDUCATION

: B. Sc. in Petroleum Engineering, Al-Azhar University, 1999

## LANGUAGES

Arabic : Native Language  
English : Good

## COMPUTER SKILLS

: Windows, MS Office, Internet

## CHRONOLOGICAL EXPERIENCE RECORD

**Dates** : From Apr. 2015 till now  
**Employer** : BADR PETROLEUM COMPANY, SHELL joint venture Co. - Concerning exploration and production of Oil and Gas in the Western Desert region of Egypt  
**Project** : Facility Reviews Project  
**Job title** : Operation Support Process Lead  
**Job Description** :

- The objective of project is to increase assets capacity and reduce unplanned deferment through operational measures and/or minor plant modifications.
- Identify Bed-3 gas trains limit diagram by developing operating envelope of static and rotating equipment including turbo-expanders, export gas compressors, TEG dehydration and inlet separators.
- Debottleneck Bed-3 oil train, increase oil handling capacity by 5kbpd.
- Carry out root cause analysis (RCA) for one of Bed-3 export compressors high current consumption, identify deteriorated compressor performance curve based on current feed gas and calculate BHP, motor

current.

- Elevate process safety integrity of Bed-3 plant by carrying Operation Risk Assessment for current safeguard overrides and put the proper mitigation. Issue Facility Change Proposals for long-term solution.
- Slashed production deferment of CRP plant 3% by performing tuning of complex control loops and implement minor plant modification to avoid escalation of unit shutdown to plant shutdown. Enhance the overhaul performance of the plant by fine tune all control loops.
- Develop root cause analysis (RCA) for CRP amine unit foaming problem and modify operating parameters to overcome foaming issue permanently.

<b>Dates</b>	:	From Jan. 2011 till Mar. 2015
<b>Employer</b>	:	BADR PETROLEUM COMPANY, SHELL joint venture Co. - Concerning exploration and production of Oil and Gas in the Western Desert region of Egypt
<b>Project</b>	:	Assil and Karam CO2 Removal Plant
<b>Job title</b>	:	Lead Process
<b>Job Description</b>	:	<ul style="list-style-type: none"><li>• The project provided CO2 removal plant adjacent to existing gas processing facility, BED-3. Project included Wellheads, flowlines, pipelines, inlet facilities, amine package, amine regeneration, HTF heater/incinerator package, HP/LP flare, Open/Close drain, fuel gas, produced water separation, project tie-in and common utilities in addition to brownfield modification in BED-3. Project scope divided into two main contractors, EPF contractor, GPS, Amine/ incinerator, and EPC contractor, Enppi, the rest of the plant. Project FEED carried out, in the period from January to August 2011, by SHELL UPSTREAM MAJOR PROJECTS in Aberdeen.</li><li>• Slashed overall CO2 equivalent emissions 17% by incinerating BTEX components and methane from stripping gas in the BED-3 Glycol Still Column streams after compressed it in liquid ring compressor. Saving 15% fuel gas utilized in incinerator by burning these streams.</li><li>• As a Process Technical Authority level 2 for project, reviewed and approved EPF/EPC contractor's process engineering deliverables, PFD, PID, cause &amp; effect, heat and mass balance, process data sheets and process calculation.</li><li>• Identified, located and optimized project tie-ins in brownfield BED-3, considering the limited shutdown time for brownfield.</li><li>• Confirmed selected concepts reflected into a Basis for Design and Project Specification as a firm basis for detailed design. Issued Project Decision/Change Notes (DCN) and updated Basic Design Package.</li><li>• Participated in HAZOP/HAZID studies, approved HAZOP close out actions and HAZID process related actions and participated in Value Engineering review.</li><li>• Participated in SIL study, reviewed and approved process design mitigation as required.</li><li>• Part of the Commissioning and Start-up team on behalf of the Project and Operations.</li></ul>

**Dates** : From Jun. 2010 till Jan. 2011  
**Employer** : WEST GABAL ELZET PETROLEUM COMPANY  
**Project** : Oil Field Development Project  
**Job title** : Consultant Lead Process  
**Job Description** :

- The project scope is to review existing oil processing facility in light of new Company production profile and forecast.
- Elevated gas handling capacity 50% and oil handling capacity 20% by replacing SRV(s), updating control/trip settings and replacing control valves.
- Carried out debottlenecking study for the whole plant, resized RO for depressurization, confirmed adequacy of interconnecting pipes, developed operating envelope for major equipment and limit diagrams.
- Developed UNISIM model for process based on characterized feed and FLARENET model for flare network.

**Dates** : From May 2006 till Jun. 2010  
**Employer** : BADR PETROLEUM COMPANY  
**Project** : BED-3 Field  
BED-3 NGL plant 340MMscfd and 17kpd contains three gas trains, oil train, condensate stabilization unit, raw gas compressors, TEG dehydration, turbo-expander, recycle compressors.  
**Job title** : Senior Process & Studying Engineer  
**Job Description** :

- Developed Safeguard and Control interface of Multistage Centrifugal GT driven Row Gas Compressor and two of gas trains, Lead its commissioning.
- Increased the capacity of 35km 10" multiphase line, in between Bed-3 and Neag fields, by 6" loop for the last 10km, developed PIPESIM model for the line.
- Carried out many plant changes to enhance productivity, optimized performance and reduced deferment, diverted associated/recycled gas to ether MP or LP train, eliminated hydrate formation in third gas train.
- Issued and maintained Operating Procedure Guide and isolation procedures.

**Dates** : From Jan. 2002 till May 2006  
**Employer** : BADR PETROLEUM COMPANY  
**Project** : BED-3 Plant  
**Job title** : Production Shift Supervisor  
**Job Description** :

- Monitored the process to ensure smooth running and maximum output of plant.
- Carried out all the required calculation for the daily and monthly production reports.
- Controlled all permits to work for all maintenance and construction departments including hot work permit and vessel entry, also to ensure that necessary precautions in place.
- Insured start-up & Shutdown procedures according approved company OPG.
- Carried out well testing and followed up Well service activities.

- Managed training of new engineers and operators.
- Assisted in firefighting as leader of the emergency team.

**Dates** : From Feb. 2001 till Jan. 2002  
**Job title** : Trainee Production Engineer  
**Job Description** : Passed through two condensed training programs:

- Graduated Engineer Development program (GED).
- On Job training program (OJT).