



إحدى شركات مؤسسة البترول الكويتية  
A Subsidiary of Kuwait Petroleum Corporation



# GOGCE



**Global Oil & Gas Conference and Exhibition 2015**  
**SUCCESS THROUGH SYNERGY**

03 - 05 March 2015

Kuwait International Fairground - Mishref, Kuwait

Hall : 6 - 7

[www.kockw.com/sites/gogce](http://www.kockw.com/sites/gogce)





His Highness the Amir of the State of Kuwait  
Sheikh Sabah Al-Ahmad Al-Jaber Al-Sabah





His Highness the Crown Prince of the State of Kuwait  
Sheikh Nawaf Al-Ahmad Al-Jaber Al-Sabah



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# GO GCE

**Global Oil & Gas Conference and Exhibition 2015**  
**SUCCESS THROUGH SYNERGY**



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Speaker Abstract & Background

The Global Oil & Gas Conference and Exhibition (GOGCE) will highlight a number of KOC's key contractors and suppliers, local universities and governmental institutes. The conference's activities will be held over a three-day period from March 3-5, opening with informative speeches and concluding with a closing ceremony.

The GOGCE will aid in the creation of a dialogue between KOC, the public and international contractors. It will also introduce information about new technology, materials, equipment and services related to the oil industry.

The opening of the event on the morning of March 3rd will begin with speeches delivered by KOC's CEO and a other senior officials. This will be followed by a Question and Answer session between KOC management and the contractor community. After the opening of the exhibition, exhibitors from KOC's key groups, KOC's contractors, sub-contractors and other parties will be able to discuss their various activities. Prototypes and display materials will be available for viewing at the main KOC booth and in different areas inside the event hall. A number of papers and presentations will be delivered during the event by a number of KOC groups, as well as by contractors and suppliers specialized in providing services, material and equipment to the oil and gas industry. The presentations made by KOC will highlight specific projects and lessons learned as well as discuss KOC's 2030 Strategy.

This event serves as an excellent chance for people to interact with KOC and the Company's higher management, where visitors will have the unique opportunity of viewing KOC's future plans, projects and strategies, in addition to meeting and interacting with other exhibitors.

Welcome to our community.





**Hashim S. Hashim**  
Chief Executive Officer  
Kuwait Oil Company

## *Welcome Message*

Dear Colleagues and Honored Guests:

On behalf of the Kuwait Oil Company, it is my pleasure to welcome all guests, delegates and exhibitors to today's Global Oil and Gas Conference and Exhibition.

To-day, we are at a crossroad as we advance towards our upstream mission of achieving the goals of maximizing the strategic value from oil, realize the potential of gas and grow reserves for a sustainable future. At this point of time, I can only emphasize the importance of your dedication and partnership to enable us to achieve these goals. Whether it is being an employer of choice, realizing value from technology, strengthening our commitments to HSE, striving for excellence in performance or contributing to enterprise and the State, we aim to emerge as regional leader setting an example of excellence in our mutual business partnership with you all.

As you are well aware of, any industry does not tolerate inefficiency, incompetency and poor HSE performance which can lead to an extremely costly lesson learnt. The core of the business is certainly profit but with proper and adequate control measure ensuring safety and integrity of the people, property and environment. The productivity in a real sense only comes with safety, security and environmental protection as long term business strategy.

It is our prime objective to remain a reliable supplier to our customers in a volatile global market and optimize the integrated value chain through the growth to technical capacity and operating capacity. Our aim is to maximize the non-associated gas production in support of the energy requirements for the State of Kuwait while reducing gas flaring to absolute minimum in support of the State's environmental objectives.

I would like to congratulate and thank everyone involved in making GOGCE 2015 a reality. Their hard work, enthusiasm and tireless work behind the scenes over the past few weeks has allowed us to enjoy this all-inclusive event today.

Once again, I would like to offer my best wishes to all participants and guests for a successful conference and exhibition.

Welcome to GOGCE2015 and if this is your first time in the country, welcome to Kuwait.

Hashim S. Hashim

# Organizing Committee

## **Ibrahim Faraj**

Chairman

Musaed Al-Rasheed

Deputy Chairman

## **Members**

Abdullah Al-Amer

Abdulaziz Al-Buloushi

Ali Al-Naema

Anwar A-Owais

Fahad Ebrahim

Ghadeer Dahdari

Jassem Al-Nasser

Kawther Akbar

Maryam Al-Yousef

Mishari Mishari

Mohammed Sadeqi

Muhammed Al-Azmi

Partha Choudhury

Samar Ruzouqi

Sarah Al-Baloul

Yousef Al-Othman





# Global Oil & Gas Conference and Exhibition (GOGCE)

## 3rd of March, 2015

### DAY 1

TIMING	TITLE OF PRESENTATION	COMPANY- GROUP	SPEAKER
09:00 - 11:50	Opening		
	Hashim S. Hashim, Chief Executive Officer		
	Ibrahim Faraj Chairman Committee		
	Lifting Realization .. Beyond Expectation by Nora Hussain AL-Maqseed		
	Living A Dream.. by Mohammad Bader Abdullah		
12:00 - 13:00	Break / Prayer		
13:00 - 13:30	ZOR Refinery Project Awareness Presentation	KNPC	Fuad Hasan Ali Zainal
13:35 - 14:05	Feasibility Study of Re-use and Utilize KNPC Treated Effluent Water in KOC Facilities	KOC- Research & Technology Group	Imad Maheimid
14:10 - 14:40	Key Engineering Highlights of Surface Facilities & Equipment for Upstream Oil & Gas Production in Kuwait Oil Company	KOC- Production & Projects (Gas) Group	Babar Mirza
14:45 - 15:15	Mitigation of Commodity Rate Fluctuation in KOC Contracts	KOC- Contracts Group	Ramesh Babu Damodaran
15:20 - 15:50	Utilization of Interwell Water Tracer for Waterflood Management in Mauddud Carbonate Reservoir, Raudhatain Field, North Kuwait	KOC- Fields Development (NK) Group	Nasser Al-Hajeri
15:55 - 16:25	Acid Stimulation of Carbonate Reservoirs using Limited Entry Open Hole Multistage Systems	Packers Plus Energy Services	Stuart Wilson
16:30 - 17:00	Impact of Efficient Planning and Use of Technology in Enhancing performance	Baker Hughes	Ali Al Dabyah

# Global Oil & Gas Conference and Exhibition (GOGCE)

## 4th of March, 2015

### DAY 2

TIMING	TITLE OF PRESENTATION	COMPANY- GROUP	SPEAKER
09:00 - 09:30	1- KNPC Prequalification Process 2- e-Sourcing at Kuwait National Petroleum Company, Kuwait	KNPC	1- Hisham Al-Thuwaini 2-Jamil Hassan Al-Awadhi
09:35 - 10:05	A 10 MW Solar Photovoltaic Plant for the Operation of ESPs in Umm – Gudair Oilfield	KOC- Well Surveillance Group	Sherif Raed
10:10 - 10:40	Dropped Objects Management Program	KOC- Technical Support Group	Ahmed Al-Shatti
10:45 - 11:15	KOC's ESP Design Initiatives	KOC- Well Surveillance Group	Nora Hussain AL-Maqsseed
11:20 - 11:50	KDDB's Philosophy – Strive for Zero Waste	Khalifa Daij al Dabbous & Brothers Co.Ltd.,	Zeyad Al Oudah
12:00 - 13:00	Break / Prayer		
13:00 - 13:30	Value proposition of Intelligent Completions	Halliburton Completion Tools	Alessandro Torchiana
13:35 - 14:05	Community Initiative- A tool to create awareness of KOC activities and encourage young students to join oil industry	KOC- Technical Support Group	Eisa Al- Daihani
14:10 - 14:40	Digital Transformation Journey	KOC- Corporate Information Technology Group	Syed Asim Hussain
14:45 - 15:15	Tayarat Reservoir Characterisation & Potential Evaluation in the Abduliya Field, West Kuwait	KOC- Fields Development (WK) Group	Fatema Hussain M Al-Failakawi
15:20 - 15:50	The Power of Integration in One System	ABB Automation LLC	Glenn Tornkvist
15:55 - 16:25	Understanding Spatial Relationships at Times of Emergency	Openware	Mona Edarous
16:30-17:00	Increasing Hydrocarbon Production from Heterogeneous Wara Sandstone by "Multi-Segment" Integration in horizontal drilling, Minagish Field, West Kuwait	Schlumberger	Ahmed Elsherif

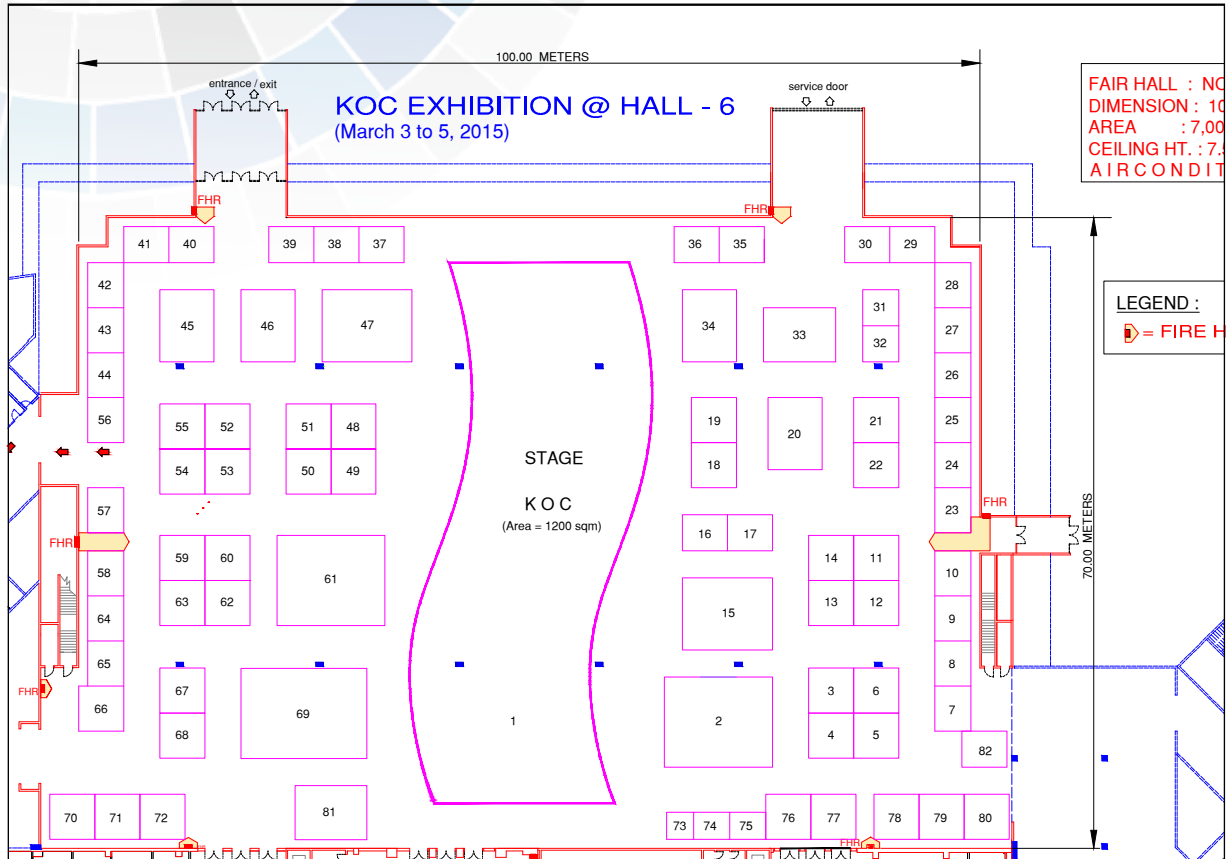
# Global Oil & Gas Conference and Exhibition (GOGCE)

## 4th of March, 2015

### DAY 3

TIMING	TITLE OF PRESENTATION	COMPANY- GROUP	SPEAKER
09:00 - 09:30	Innovation Approach to increase Name Plate Capacity of Operating Oil and Gas Gathering Center : A Case Study of North Kuwait Facility of Kuwait Oil Company	KOC- Operations Support (NK) Group	Chirag Parikh
09:35 - 10:05	High Performance O&G Chilled Water System	Trane	Ghassan Freiwat
10:10 - 10:35	Dry Gas Seal Reliability and Availability Improvement	KOC- Operations Support (NK) Group	1) Khaled Hussain Jafar 2) Vinay Mohanlal Mehta
10:45 - 11:15	Effect of employee KPI's with measuring system and Strategic Performance under WSG	KOC- Well Surveillance Group	Hasan Al-Bahrani
11:20 - 11:50	Development of Medium Voltage Variable Frequency Drives for high reliability applications.	Siemens AG, PD UM OGD S.	Jeremy Peter Andrews
12:00 - 13:00	Break / Prayer		
13:00 - 13:30	Where Have All The Experts Gone? Advanced Development Programmes – The fastest way to competence	PetroSkills	Myles O'Connor
13:35 - 14:05	Preventive Maintenance Survey for KOC Facilities with Risk Based Inspection (RBI)	KOC- Operations Support (S&EK) Group	Ajay Gautam
14:10 - 14:40	Novel Design and Implementation of Kuwait's First & Second Smart Multilateral Well with Inflow Control Device and Inflow Control Valve for Life-cycle Reservoir Management in High Mobility Reservoir, West Kuwait	KOC- Fields Development (WK) Group	Om Prakash Das
14:45 - 15:15	Adding Value with Twin Screw Pumps	Colfax Fluid Handling	Mark Korzec
15:20 - 15:50	Production Optimization using Real-time Monitoring	Weatherford	Mohit Bhat
15:55 - 17:00	Event Closing Ceremony		

# Exhibitors Floor Map Hall - 6

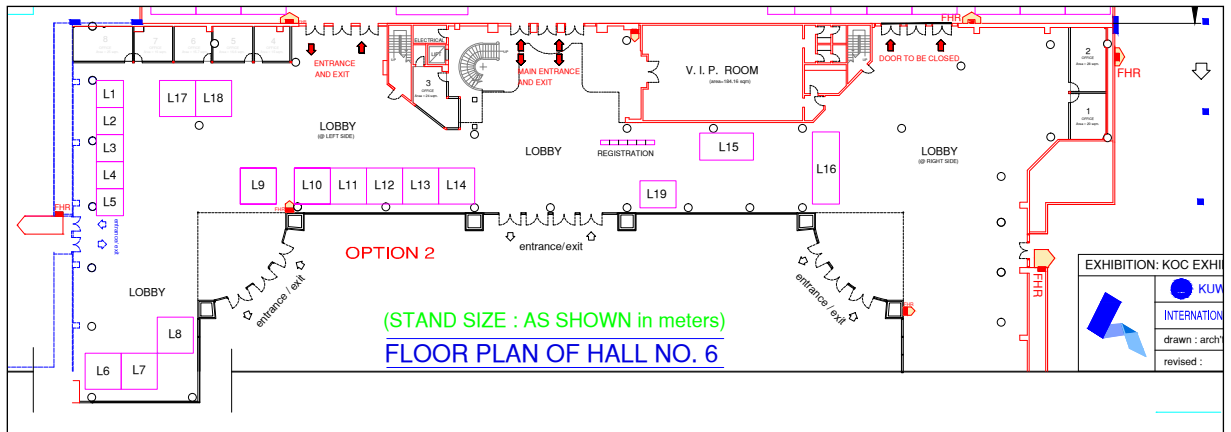


Kuwait International Fairgrounds, Mishref, Kuwait

Exhibitor	Booth No.
5M International Consultancy and Training	31
ABB Engineering & Technologies Co	9
Aegion	13
AkzoNobel	71
Al Sanea Chemical Products	21
Al-Ahleia Insurance Company	7
Al-Bader Trading Company	6
Alkhorayef Company for Sale, Maintenance & Repair of Oil Production Equipment	81
Baker Hughes, Inc	47
Burgan Drilling Company	20
Burgan Mechanical works Company	66
CANAR Trading & Contracting Co. W.L.L	16
Central Tender Committee - Kuwait	76-77
Chamber of Commerce - Kuwait	75
Concept Communications General Trading and Contracting Co.	70
CyberMAK Information Systems	40
Dar Al-Jazera Consultants	27
Delta Corporation	34
Dhawahi Al Jazirah	43
Diyar United Trading And Contracting Company	48
Eastern United Petroleum Services - EUPS	67
Ebla Computer Consultancy Co.	51
Eco Clean General Trading	29
Egyptian Mud Engineering & Chemicals (EMEC)-sponsor (Combined Technologies Co. CTC)	54
El Hoss Engineering & Transport Co. W.L.L	22
EPSCO General Trading and Contracting Company	14
Equipment Co Wll	11
Fawares Petroleum Services Company.	62
First Takaful Insurance Co (FTIC)	82
Four Films Printing Group Co. W.L.L	32
Gas & Oil Field Services Company - GOFSCO	68
Global Experience Consulting Company	65
Gulf Business Services and Recruitment Group	50
Gulf Insurance Company	80
Gulf Spic General Trading & Contracting Co. W.L.L	44
Halliburton Overseas Limited	61
INCO-LABS	64
Integral Services Company W.L.L	8
International Naval Works "INW"	42

Exhibitor	Booth No.
Khalid Y. Al Fulaij & Partners Co.	39
Khalifa Daij al Dabbous & Brothers Co.	3
Kharafi National Company	33
Khorafi Business Machines W.L.L.	49
Khuff General Trading & Contracting Company	18
KNPC	69
KOC	1
KOC Hospital	37-38
Kuwait Drilling Company	46
Kuwait Insurance Company	78
Kuwait Pipe Industries & Oil Services Co. (K.S.C.)	55
Kuwait University	35-36
Kuwait Well Drilling Co. W.L.L.	30
Larsen & Toubro Infotech Ltd	17
Ministry of Finance - Kuwait	74
Ministry of Social Affairs	73
National Petroleum Services Comapny (K.S.C)	19
Nouri Industrial Establishment Co. For Gen. Trad & Cont. Wll	5
Openware Information System Consulting Co.	52
Paradigm	4
Petrosas oil services company	59
PetroSkills LLC	10
Proximity	41
R Stahl Middle East	56
Reda United Company For Fire & Safety Equipment	23
Rezayat Trading Company Limited	24
Safety and Fire Experts	28
Schlumberger	2
SEEDiS General Trading and Contracting Co.	63
Siemens EES K.S.C.C	45
Smit Lamnalco	53
Sons of Hamed Y. Al Essa Trading Co	72
Sulaiman Alqudaibi Co. For GRP & Plastic Products	58
Sultan Records Management Co. W.L.L	57
TRANE	12
TUV Rheinland	60
Warba Industrial & Advanced Services Center	25-26
Warba Insurance Company	79
Weatherford-Kuwait	15

# Exhibitors Floor Map Hall - 6 Lobby



Kuwait International Fairgrounds, Mishref, Kuwait



## Companies in the Lobby

Booth	Company
L1+L2	Zain
L3+L4	Wataniya
L5	Automac
L6	Al-Moosa And Arzouni Marketing Trading Co
L7	KOGS
L8	Eureka
L9	United Labs
L10	Boubyan Bank
L11	AL-Nahar
L12	Mega Digital Solutions
L13	Coo For General Trading
L14	StickinStyle
L15	Gulf Bank
L16	Blood Bank
L17	Al Qurain Automitive Trading Co.
L18	National Bank of Kuwait
L19	The Oil and Gas Year

# Kuwait Oil Company Booth (1) Layout





## Kuwait Oil Company Groups Name

S.No	Group Name
1	Exploration Group
2	Gas Field Development Group
3	Gas Operations Group
4	Production & Projects (Gas) Group
5	Contracts Group
6	Purchasing & Materials Management Group
7	Commercial Support Group
8	Planning Group
9	Ahmadi Projects Group
10	Health, Safety & Environment Group
11	Soil Remediation Group
12	Recruitment Team
13	Projects Support Services Group
14	Corporate Information Technology Group
15	Development Drilling (II) Group
16	Deep Drilling Group
17	Well Surveillance Group
18	Technical Support Group
19	Research & Development Group
20	Research & Technology Group
21	Operations Support (NK) Group
22	Support Services (NK) Group
23	Fields Development (NK) Group
24	Fields Development Heavy Oil (NK) Group
25	Fields Development (S&EK) Group
26	Operations Support (S&EK) Group
27	Fields Development (WK) Group
28	Export Operations Group
29	Marine Operations Group
30	Kuwaitization Team

## Imad Ahmed Al-Maheimid

Specialist Petroleum Engineer  
Research and Technology Group, Surface Team  
**Kuwait Oil Company**



Email Address : imaheimid@kockw.com

Imad A. AL-Maheimid is a TPL Senior Specialist (Reservoir and Petroleum engineering in KOC Research and Technology Group, Surface Team, State of Kuwait). He has 24 years' experience in oil industry (upstream). Imad started his practical life in Syrian Petroleum Company SPC working in gathering centers as technical supervisor, later on as production supervisor, in Kuwait Institute for Scientific Research KISR he spent 9 years as Research Associate supervising sea water injection project in NK, during his service in KISR he participated, contributed and carried out several studies in oil field chemical optimization, effluent water treatment and re-injection, scale & corrosion inhibition and bacterial growth monitoring and controlling, in 2009 he joined Kuwait Oil Company as specialist in water management leading oil field water management cluster within R&T Group, his current responsibilities is evaluating and implementing new and emerging technologies pertaining to oil field water management in order to overcome the challenges associated with oil field water production.

Presentation: ***Feasibility Study of Re-use and Utilize KNPC Treated Effluent Water in KOC Facilities***

As the state of Kuwait are located in arid and semi-arid climate area which affected by water shortages, especially shortage in the water intended for industrial applications. So in this particular climatic context, utilizing of any available source of wastewater / industrial waste water will partially overcome Kuwait Oil Company, KOC industrial water shortage problem.

KNPC treated effluent water is a potential source of low salinity water which can be utilized in KOC as industrial water for desalters wash water, firefighting systems and could be used as source water for irrigation of road trees. To confirm the suitability of this source for KOC industrial use, a comprehensive compatibility study have been carried out for KNPC Treated Effluent Water, KOC Brackish and Formation Waters, followed by chemical screening to inhibit any scale potential in the water distribution system, bacteria analysis and suitability of this water for irrigation purposes have been carried out and completed also.

The conclusion was made that KNPC treated effluent water can be used and utilized for KOC industrial applications and firefighting systems & could be used as source for irrigation (not recommended).

By utilizing KNPC treated effluent water, the following objectives benefits for the company and the state of Kuwait can be summarized:

Minimize and optimize Abdaliyah brackish water daily consumption by at least 50 %.

Reflect KOC commitment to the community by utilizing this waste water stream which is simply disposed of into Arabian Gulf sea shore after primary treatment

Protect Kuwaiti marine live by utilizing this waste stream for industrial application instead of dispose it into the sea shore.

Consider this treated effluent water as sustainable source for KOC current and future low salinity water for industrial applications, utilizing of such water will overcome KOC future low salinity water demands.

Key words: KNPC Treated Effluent Water, Compatibility Study, De-salters Wash Water, Scaling, Chemical Screening, Brackish Water.



## Ahmad Al-Shatti

Safety Engineer  
Technical Support Group  
Kuwait Oil Company



Email Address: aeshatti@kockw.com

Ahmad possesses a BSc (Mechanical Engineering) from Kuwait University and has joined KOC as a Safety Engineer in 2010. He is currently involved in HSE Rig inspections, incident investigations and other safety programs related to drilling rigs in D&T Directorate. Ahmad has presented various technical papers in different conferences related to HSE aspects.

Presentation: ***Dropped Objects Management Program – A proactive Approach Towards Incident Prevention in Drilling Operations***

The paper shares best practices related to Dropped Objects Management Program that is being implemented in KOC. It identifies the activities with desired outcomes towards stopping dropped objects at drilling rig sites, and hence to reduce the dropped objects incidents ratio through various mechanisms.

## Ajay Gautam

Engineer Planning  
Operations Support Group (S&EK)  
Kuwait Oil Company



Email Address: agautam@kockw.com

Project Management Professional with a successful career spanning about 15 years in Projects Management, Project Control, Maintenance Planning & Contracts Management for Oil & Gas and Energy Sector.

Presentation: ***Preventive Maintenance Survey for KOC Facilities with Risk Based Inspection***

To Improve Asset Integrity, Plant Availability & Optimize resources, Risk Based Inspection Philosophy (categorizing Risk probability, consequences and revising preventive Maintenance frequencies accordingly) was implemented in GC-11 as the first ever Production Facility in KOC. This was in line with latest International Standards & practices which was approved by KOC Leadership Committee in October' 2014.

## Asim Hussain

TPL Senior Specialist IT  
Corporate Information Technology Group  
**Kuwait Oil Company**

Email Address: shussain@kockw.com



Asim has carried out implementation and lifecycle management of major business solution initiatives at KOC including Oracle ERP, Maximo & Passport EAM, Hospital Information System. He has 28+ years of experience in all phases of system development. He holds Masters in Computer Sciences and certifications in PMP and TOGAF-8. He is a member of IEEE and PMI.

Presentation: **Digital Transformation Journey**

The presentation will focus on KOC's steady digital transformation while keeping balance between business needs and technological growth with implementation of various business and technical systems. The steps being taken to address the exponential data growth, analysis for timely decision making, improving operations, productivity and collaboration will also be addressed.

## Babar Mirza

Senior Engineer Projects  
Production & Projects (Gas)  
**Kuwait Oil Company**

Email: bmirza@kockw.com



The presenter, Babar Mirza, MS (Hons.) in mechanical engineering 1975, has specialized in rotating equipment and has almost 40 years of engineering design experience in surface facilities and equipment of Oil, Gas & power projects, including 27 years in design engineering of KOC projects. His previous background includes managerial experience in facility & equipment engineering in India, UK and Saudi Arabia.

Presentation: **Key Engineering Highlights of Surface Facilities & Equipment for Upstream Oil & Gas Production in Kuwait Oil Company**

Paper highlights the key engineering aspects of KOC's existing projects, facilities and equipment both current and from nearly 30 years of projects development. It deals with engineering aspects of mainly process and mechanical equipment, both static and rotating besides others, used for collection, separation, desalting, heat transfer, chemical treatment, storage, pipelines and similar facilities utilized for oil and gas production, both sweet and sour.

Seven (7) case studies are presented summarizing lessons learned and the importance of concept selection and preliminary design phases in a project cycle.



## **Chirag Parikh**

Process Engineer-I  
Operations Group (NK)  
**Kuwait Oil Company**



Email Address : cparikh@kockw.com

Mr. Chirag Parikh presently works in Production Operations Team of Kuwait Oil Company as Process Engineer. He has more than 15 years of experience in various IOCs and NOCs. Mr. Chirag holds B.E. and M.E (Hons.) degrees in Chemical Engineering. He also holds PMP certification from PMI, USA and IGC from NEBOSH, UK.

Presentation: ***Increase Name Plate Capacity of Oil and Gas Gathering Centre: A Case Study of North Kuwait Facility of KOC***

The Oil and Gas gathering facility of Kuwait Oil Company was built with a capacity of X MBOPD with 50% water cut. However, the facility was operating with a water cut of 35% since its commissioning. This study was conducted to evaluate possibility of increasing oil processing capacity of this facility considering current lower water cut and other operational flexibilities available in the facility without utilizing its design margin.

## **Eisa Al-Daihani**

Team Leader,  
Technical Personnel Development (TPD) Team  
**Kuwait Oil Company**



Email: edaihani@kockw.com

3 years' experience as Team Leader of Kuwait Oil Company Technical Personnel Development team providing leadership and oversight for Subsurface Training Implementation Unit staff development major projects / initiatives and talent management activities covering approximately 1,200 employees working in the following Discipline Areas: Petroleum Engineering, Reservoir Engineering, Geosciences, Drilling and Data Management.

Presentation: ***Community Initiative- A tool to create awareness of KOC activities and encourage young students to join oil industry***

The Oil industry is facing enormous challenges to attract the National work force. Shortages of skilled manpower is a major challenge in achieving our strategic objectives. KOC proactively created awareness through school visits to explain KOC's vital role in Kuwait's economic growth. The campaign was highly successful based on student's feedback who were excited to meet the challenge.

## Fatema Hussain M Al-Failakawi

New Fields Development  
West Kuwait (NFD-WK)  
**Kuwait Oil Company**

Email: FHFailakawi@kockw.com



Fatema Al-Failakawi holds B.S. degree in Geoscience and M.S. degree in petroleum engineering & Geoscience from Kuwait university. She has been working with KOC for the last 6 years on the geophysical, petrophysical & geomodeling work-flows. Currently she is involved in the reservoir characterization of Tayarat heavy-oil reservoir in WK oilfields.

Presentation: ***Tayarat Reservoir Characterization & Potential Evaluation in the Abduliyah Field, West Kuwait***

This paper shares results from the Tayarat production appraisal well where electro-logs, core and RFT data were used to define hydrocarbon accumulation leading to successful recovery of oil sample in the Abduliyah field. The paper also presents geomodeling, well design, testing and stimulation challenges as well as further Tayarat development plans.

## Hasan Al-Bahrani

Senior Engineer  
WSG  
**Kuwait Oil Company**

Email: hbahrani@KOCKW.com



Hasan Al-Bahrani, 34 Years old, Graduated from Kuwait University in 2004. As Petroleum Engineer Work with Ministry under underground Water Well Drilling department 2004-2007  
Join KOC in 2007

- Supervised WS activities ( A/L function test, CT, logging, slick line and Testing WHM)
- Head Of SEK, WK and NK
- Head of Planning and Budget for WS Tech Team
- Head of Group Planning and Budget
- Special Project under WS Manager and Support WS Tech Team

Presentation: ***Effect of employee KPI's with measuring system and Strategic Performance under WSG***

This research paper is looking on development of strategic performance measurement system and the importance of employee and management KPI's & BSC alignment. The goal of this paper is to answer the following questions:

How it can be developed? Who should be involved? How to track performance? When it should be completed? The paper methodology present literature review model and apply it in a case under Well Surveillance group under KOC to answer all the above questions. Then, data & analysis is used to prove the implication of the model for performance management under WSG. Finally, gives recommendation for other organization, groups, and teams or even for a business unit.

Case Conducted in 2014/2015 based on KOC Financial Year



**Nasser Al-Hajeri**

Reservoir Engineer  
 Field Development North Kuwait (Raudhatain Team)  
**Kuwait Oil Company**

Email: [nasahajeri@kockw.com](mailto:nasahajeri@kockw.com)



Reservoir Engineer .Bachelor degree in Petroleum Engineering from Kuwait University 2009, Master degree in Petroleum Engineering from Kuwait University 2013, joined KOC since 2009, six years of experience and knowledge in Field Development North Kuwait (FDNK) as reservoir/petroleum engineer. Worked mainly in mature carbonate reservoirs with water flooding.

Presentation: *Utilization of Interwell Water Tracer for Waterflood Management in Mauddud Carbonate Reservoir, Raudhatain Field, North Kuwait*

Interwell Tracers have been utilized in Raudhatain Field since 2008 to understand the fluid movement between the wells and to improve waterflood management process. The Tracer information has been utilized qualitatively and quantitatively to understand the fluid movement laterally and vertically between the flow units and provided invaluable information that has been used for optimizing Mauddud reservoir waterflood, calculating the swept volume and to optimize wells production.

**Om Prakash Das**

Senior Petroleum Engineer  
 Field Development (West Kuwait)  
**Kuwait Oil Company**

Email: [odas@kockw.com](mailto:odas@kockw.com)



A talented and dynamic Senior Petroleum Engineer, with 12 years of oil industry experience. A senior professional with vast experience in Petroleum Engineering, Deep Water Well Completions, Advance Well Completion, Sand Control, ICD completions, Smart completions, Multilateral completions, Water Injection, Production Optimization, Stimulation Techniques, Reservoir Management and Field Development Planning.

Presentation: *Novel Design and Implementation of Kuwait's First & Second Smart Multilateral Well with Inflow Control Device and Inflow Control Valve for Life-cycle Reservoir Management in High Mobility Reservoir, West Kuwait.*

Kuwait's 1st and 2nd Smart Multilateral wells consisting of ICD completions, Level-4 Multilateral Junction, ICV, Intelligent Completions and ESP are successfully implemented in Minagish Field, West Kuwait. Smart Multilateral wells have assisted in addressing premature water breakthrough, enhanced dry oil production and facilitated uniform depletion, which results in improved hydrocarbon recovery.

## Raed Sherif

Consultant,  
Well Surveillance Group  
**Kuwait Oil Company**

Email: rsherif@kockw.com



Raed is a veteran of the solar industry for over 20 years. He has held leadership positions in American technology companies in both photovoltaic and concentrated solar thermal power. Raed is currently serving as a technical consultant with the Well Surveillance Group, working on developing and deploying solar projects.

Presentation: ***A 10 MW Solar Photovoltaic Plant for the Operation of ESPs in Umm-Gudair Oilfield***

We discuss the development of a 10 MW photovoltaic project in Umm Gudair. The solar plant is synchronized with a substation to feed electricity to Electric Submersible Pumps, which is the first of its type. The project has been registered with the United Nations to get Certified Emission Reduction Certificates.

## D. Ramesh Babu

Senior Contracts Engineer  
Contracts Group  
**Kuwait Oil Company**

Email: rdamodaran@kockw.com



Mechanical engineering graduate with 27 years of experience in the process industry. Diploma in Management with specialization in Financial Management. Area of specialization is EPC Contracting. Working as Snr. Contracts Engineer in KOC for last 8 years.

Presentation: ***Mitigation Of Commodity Rate Fluctuation In Koc Contracts***

This presentation is aimed at briefly highlighting the risk of commodity price fluctuation that may affect both client and contractor depending on the contracting strategy selected and also explain the methodology that is followed by KOC to mitigate this risk in executing its EPC projects.





## **Khaled Jafar**

Engineer Equipment Support & Reliability  
**Kuwait Oil Company**

Email: [kjafar@kockw.com](mailto:kjafar@kockw.com)

Co author: **Vinay Mehta**

Engineer Equipment Support & Reliability



Mr. Khaled Jafar is Mechanical engineer with over 3 years of experience working as Engineer Equipment Support & Reliability in KOC.

Mr. Vinay Mehta is Mechanical Engineer with over 18 years of experience and working as Engineer Equipment Support & Reliability in KOC.

Presentation: ***Dry Gas Seal Reliability and Availability Improvement***

Dry gas seal are one of the most critical components of the modern day compressor train. Its proper functioning not only impacts availability, reliability and integrity of the compressor train but also has a significant impact on environment.

This presentation discusses "Reliability and Availability improvement of dry gas seal."

## **Nora H. Al-Maqseed**

Petroleum Engineer (Well Surveillance)

**Kuwait Oil Company**

Email: [nmaqseed@kockw.com](mailto:nmaqseed@kockw.com)



Nora H. Al-Maqseed has earned her BSC and MSC in Electrical Engineering with honors from Kuwait University in June/2009 and Dec. /2013, respectively. Awarded a fellowship program at the prestigious MIT in the Summer of 2009. Working as a Petroleum Engineer in Well Surveillances Group at Kuwait Oil Company from March 2010 to date. Presented with the "Best Speaker" award in at the Middle East Artificial Lift Forum (MEALF -2013). Currently, heading AL-NK's Technical Unit; in-charge of ESP conventional and special designs, ESP optimization, failure analysis and prediction.

Presentation: ***ESP Design Initiatives in Kuwait Oil Company***  
***ESP: Electrical Submersible Pump***

At Kuwait Oil Company (KOC), each year hundreds of wells in the maturing fields are being converted to be completed by different Artificial Lift (A/L) modes. To select the most suitable A/L mode for each well, an Artificial Lift method selection evaluation is performed. WSG have developed an In-House developed software to select the most suitable A/L which is called "Artificial Lift Expert System" (ALES) that aims to find the most suitable A/L mode analyzing future well performance with few simple steps. In addition, WSG have established an In-House tailored development and enhancement of "Artificial Lift Management System" (ALMS). Beyond conventional ESP installations for rectifying or elevating production or the related activities; unconventional-complex designs are also being embarked upon. One among many, is the Down-hole Water Sink Completion via Y-Tool with Shrouded ESP, which is a candidate for patent-obtainment; as the creation of a Down-hole Water Sink through a unique first time adaptation.

## Fuad Hasan Ali Zainal

Senior Engineer Project Control Package - 2

**Kuwait National Petroleum Company**

Email: f.zainal@knpc.com



Over 20 years of experience in KNPC. Started as Materials & Contracts Engineer. Promoted to Senior Engineer Projects Coordination and Services in MAA Refinery in 2005. Joined ZOR Project Department in August 2008 as Senior Engineer Materials & Contracts, and currently working as Senior Engineer Projects Control Package-2.

Presentation: **ZOR Refinery Project Awareness Presentation**

Presentation is about general information on the ZOR Refinery Project. It will provide a brief information regarding KPC and KNPC strategic plans with ZOR project being part of the national level strategic projects in the State of Kuwait. Description will be given on the objectives of the ZOR project, the refinery capacity, the products, its process scheme, tendering and execution schedules, and a 5-minute video clip with 3-D animation about the project.

## Hisham Al-Thuwaini

Team Leader, Prequalification & Supplier Development

**Kuwait National Petroleum Company**

Email: h.thuwaini@knpc.com



Mr. Hisham Al-Thuwaini started as a Maintenance Planning Engineer at MAA Refinery in KNPC. He later joined IT department and was engaged in the implementation and support of business applications. Currently he is in charge of prequalification of vendors and contractors.

Presentation: **KNPC Prequalification Process**

- Duties of Vendors & Contractors Evaluation Committee (V & CEC)
- New KNPC e-Sourcing Portal
- Mandatory Prequalification Prerequisites & Documents
- V & CEC PQ Application Structure



**Jamil Hassan Al-Awadhi**

Team Leader – Commercial Support SHU Refinery

**Kuwait National Petroleum Company**

Email: Jha016@knpc.com



Mr. Jamil Al Awadhi, is a Procurement professional working in KNPC since 1992 and holds a Masters degree in Administration from KMBS, Kuwait. An energetic team leader, able to communicate effectively with people of all ages and backgrounds, to work collaboratively to resolve problems, and to motivate team members to achieve personal and organizational objectives.

Presentation: *e-Sourcing at Kuwait National Petroleum Company, Kuwait*

KNPC has been the pioneer in implementing full-fledged on-line tendering application amount K Companies. This presentation is intended to explain the KNPC’s experiences in e sourcing and the features relevant to Suppliers of the new e-sourcing portal implemented by KNPC recently.

**Jeremy Peter Andrews**

Major Project development Oil & Gas

**Siemens AG, PD UM OGD S.**

Email: jeremy.andrews@siemens.com



Graduate of Mechanical Engineering from Sussex University in the UK  
I joined Ansaldo Hill Graham as a quotation engineer responsible for reviewing specifications for LV and MV drive systems. This evolved into a sales position covering global projects.  
I then headed up Robicon Corp. as their first European employee selling MV drives systems into Europe and the Middle East. Soon after Siemens acquired Robicon I became director of the Oil & Gas industry for MV drive systems. I supported Siemens regions globally on major Oil & Gas projects giving strategic support to oil companies and consultants at all stages for MV drive systems.  
Currently I am based in the Global headquarters for Siemens in Nürnberg as Head of the Oil & Gas Market for MV drive systems. I provide application experience advice for oil and gas MV drives systems globally for early phase concept projects all the way through to the point of order.

Presentation: *Development of Medium Voltage Variable Frequency Drives for high reliability applications.*

As process interruptions can be very expensive, reliability and availability values of a Variable Frequency Converter (VFD) are often two of the most important specification issues when selecting a drive. Recent developments of MV drives have introduced options for increasing the reliability of the drive in faster and more reliable techniques.  
The total reliability of these drive systems (including transformers, cooling unit, control cabinet) will be calculated using defined methods and assumptions.  
The reader of the paper will have a better understanding of how to define a high reliability solution.

## Myles O'Connor

Regional Sales Director

PetroSkills

Email: myles.oconnor@petroskills.com



Myles O'Connor is the Regional Sales Director, Middle East for PetroSkills. He holds a Mechanical Engineering degree and has spent his career in Learning and Development assisting global organisations rapidly get their workforces to higher levels of competence through the use of advanced blended learning programmes.

Presentation: *Where Have All The Experts Gone? Advanced Development Programmes – The fastest way to competence*

With lower oil prices leading to training budget cuts, but ever larger demands on training due to increasing nationalization and experts retiring, 2015 could be the perfect storm for L&D managers.

In this presentation, we discuss how ADPs are going to play a vital role in the solution, and look at best practices on designing these innovative blended learning programmes to ensure Oil and Gas companies have the competent workforce they need to succeed.

## Ali Al Dabyah

Drilling Applications Engineering Manager

Baker Hughes

Email: Ali.aldabyah@bakerhughes.com

MBA – Project Management, Bachelor Degree in Electrical Engineering-KFUPM  
Drilling Applications Engineering Manager (present), Drilling Application Engineer (November 2009 – 2013), MWD/LWD Engineer “Baker Hughes”(Mars 2007 - November 2009), Electro Mechanical Engineer “Mobily”, Electrical Engineer “Saudi ARAMCO”

Presentation: *Impact of Efficient Planning and Use of Technology in Enhancing performance*

Poor drilling performance can lead to increased costs when enhanced drilling performance and extended reach are the main goals for oil operators. Service companies, using the latest technology, can achieve these objectives.

Service companies and operators apply several pre-well planning processes and methods to enhance drilling operations effectively and attain objectives. One of these processes involves a thorough understanding and application of the geological structure and conducting a formal planning, process incorporating all aspects of drilling, well design, formation evaluation, bit selection and bottomhole assembly.

This paper highlights the importance of efficient planning and use of technology in enhancing performance by using case studies.



## Zeyad Al Oudah

General Manager  
Khalifa Daij al Dabbous & Brothers Co.Ltd.

Email Address: info@ekddb.com



Professional engineer and manager with experience in Oil & Gas sector reaching over 21 years which is currently heading KDDB company as its General Manager while playing a significant role in companies of Energy House Holding.

Presentation: *KDDB's Philosophy – Strive for Zero Waste*

Water Supply and Waste Water Treatment is a well-known serious issue on Kuwaiti market. KDDB encounters this issue while executing its projects wherever they are. Therefore Zero Waste project was developed to address this problem. Within a short time it has gained popularity on local and Middle East market as it solves the problem and has other advantages. Odorless and silent operation, absence of corrosive materials and of mechanical maintenance, assembly in Kuwait and others, make it a unique problem solver.

## Glenn Tornkvist

Pre & After Sales Manager  
ABB Automation LLC/Control Technologies

Email: glenn.tornkvist@ae.abb.com



ABB Control Technologies Pre & After Sales Manager for Middle East and Africa + ABB CT Sadara Project Manager in Abu Dhabi.

Glenn has been working with control systems within ABB in 20 years. Located in ABB Sweden the 15 first years where he had various customer related roles and frequently had contact with all industry segments.

Presentation: *The Power of Integration in One System*

The potential and the power of integration in one system lies in what can be achieved when information is seamlessly available, in context, to all of the devices, systems and individuals responsible for controlling, maintaining and managing production. Imagine that with one click an operator can access any information required to make an informed decision—regardless of where the data resides. Or that a maintenance technician can access from her wireless tablet the commissioning displays, diagnostics and active work orders for the transmitter she is troubleshooting.

## Ghassan Freiwat

Commercial Director  
Trane, Ingersoll Rand



Email: surajit@trane.com

Ghassan Freiwat, Commercial Leader – Middle East and Africa

Ghassan Freiwat is the commercial leader of Trane in the Middle East and Africa. Ghassan has twenty-one years of experience in the HVAC industry, including eleven with Trane. During his tenure at Trane he has held various positions, from business development leader for commercial unitary products to his current position as commercial leader for the full Trane product portfolio. As a director of sales, Ghassan is responsible for the P&L of the Trane equipment business - both applied and unitary - across the region.

Ghassan earned his Bachelor of Science Degree in mechanical engineering from the American University of Cairo in 1990, where he majored in industrial engineering with a minor in business administration.

Presentation: **Presentation summary: High Performance O&G Chilled Water Systems**

Chilled water systems have been used for more than 60 years. During that time, there has been a consistent effort by manufacturers and system designers to develop equipment, design strategies and control methods that result in the highest performing chilled water systems possible.

Rather than applying 60-year old paradigms from comfort cooling to O&G application requirements, this presentation discusses equipment capabilities, system configurations, design parameters and system control techniques that reduce chilled water system operating costs and environmental impact. Data from a system using many of these design and operation options is shared.

## Alessandro Torchiana

Region Business Development Manager Intelligent Completions  
Middle East & North Africa  
Halliburton Completion Tools, Dubai, U.A.E

Email: alessandro.torchiana@halliburton.com

Twelve years of experience in the Oil & Gas sector, been in charge of Business Development of Intelligent completion for the past seven years working at fit for purpose Intelligent Completion design for Subsea applications in Egypt and Business Development for North Africa and Middle East.

Presentation: **Value proposition of Intelligent Completions**

An Intelligent Completion system optimizes production or injection by collecting, transmitting, and analyzing completion, production and reservoir data; allowing remote selective zonal control and ultimately maximizing reservoir efficiency by:

- Helping Increase production
- Helping increase ultimate recovery
- Helping reduce capital expenditure
- Helping reduce operating expenditure



## Mark Korzec

Commercial /Tendering Dept  
Application Sales Engineer

**El Hoss Engineering & Transport Co. W.L.L**

Email: Peter.Mcnaughton@Halliburton.com



Mark Korzec is a graduate of Worcester Polytechnic Institute SIM in Worcester Massachusetts, he has over 44 years of pump experience starting with Warren Pumps in Warren Massachusetts followed by his close association with the other positive displacement pump and systems brands & business units currently found under the Colfax Fluid Handling umbrella. Working with Oil Companies, Engineering firms, and Design Institutes around the globe Mark has gained a unique perspective on challenging oil industry applications and combined with his knowledge of various pumping technologies he has helped many companies determine what pump technology is best suited for a particular application.

Presentation: ***Adding Value with Twin Screw Pump technology***

Understanding the fundamental operating principles of Centrifugal vs. Positive Displacement Pumps . Understanding the fundamental operating principles of positive displacement pumps and how they are applied within the oil & gas industry.  
Understanding Multiphase Booster Pump technology & multiphase booster pump systems capability using twin screw pump technology.

## Mona Edarous

Events Specialist  
**Openware**

Email: h.badie@openware.com.kw

Mona Edarous, senior presales consultant at Openware, is a subject matter expert in GIS, ITIL, and Oracle. Prior to Openware, Mona was industry manager at Esri NEA with a focus on the utilities industry. Mona hold a Bachelor's of Science in Civil Engineering from Ain Shams University and Post Graduate Diploma in GIS.

Presentation: ***Understanding Spatial Relationships at Times of Emergency***

Understanding the spatial relationship between the emergency location and response units assists with dispatch mobilization, recovery strategy, trend forecasting and future mitigation. GIS provides a single operating platform during incident management situations. We'll discuss how petroleum companies implement GIS to actively respond and formulate recovery strategies for business continuity.

## Ahmed Elsherif

Wireline Logging Engineer  
Schlumberger

Email : asherif@slb.com



Joined Schlumberger on October 1981 as a Wireline Logging Engineer. I moved to interpretation domain after attending Schlumberger Log Analysis School in France, 1990. I worked in several countries as Wireline Account Manager / Domain Champion (Petrophysics). I moved to Data and Consulting Services (DCS) in 2001 and worked as DCS Manager in Kuwait / Egypt / Iraq. I worked as NEXt\* Instructor in Schlumberger teaching open hole / cased hole logging and interpretation. Recently, I moved to Drilling and Measurements as Petrophysics Domain Champion in 2012 covering Kuwait / Iraq and Oman.

Presentation: ***Increasing Hydrocarbon Production from Heterogeneous Wara Sandstone by "Multi-Segment" Integration in horizontal drilling, Minagish Field, West Kuwait***

The Wara Sandstone reservoir is a complex deposition of a "Fluvio-tidal" channel sands with a complex stratigraphic architecture, implying lateral facies variations and stacked sand bodies with varying permeability associated with high viscous reservoir fluid which causes low oil mobility and resulting in to lower oil production. Further due to heterogeneous reservoir with stacked sand bodies associated with fault networks poses several challenges in drilling as well as geo-steering.

The well location is selected in one of the high potential areas of Wara sand reservoir and the well trajectory is optimized by sand distribution geo-models utilizing the most advanced high resolution seismic techniques in interpretation.

Since traditional logs could not capture the textural differences characterizing the most Wara prolific zones, formation evaluation and geosteering challenges were addressed to ensure the successful drilling and completion of horizontal producers. A combination of the latest advanced geo-steering technology was used in this well including Rotary Steerable, Distance to Boundary & Sourceless petrophysical evaluation while drilling.

The uncertainties in the geostatistical models were reduced further while drilling by a high definition inversion based distance to boundary technology having a higher precision and accuracy of resistivity contrast boundaries. The tool was able to consistently map several layers above and below Wara sand all through drilled section. This proved invaluable in the selection of the best reservoir layers in real time while delivering a very detailed reservoir reconstruction in the direction of the drilled well.

Sigma saturation was of great value in "mixed lithologies" of Wara as resistivity frequently polarized from the proximity to bed boundaries and in these portions proved ineffective for saturation evaluations. These types of lithologies were analyzed using elemental dry weights from spectroscopy. The Sourceless abundant reservoir measurements delivered in a real time a comprehensive petrophysical evaluation which is the essential data for wellbore compartmentalization and Inflow Control Device (ICD) design. Further the water saturation values from sigma logs were also used in ICD completion design. The integrated approach for drilling, geo-steering and ICD completion design has led to maximizing the well productivity from horizontal wells with ICD completion in Wara reservoir.





**Stuart Wilson**

Regional Engineering Manager  
**Packers Plus Energy Services**

Email: [stuart.wilson@packersplus.com](mailto:stuart.wilson@packersplus.com)



Stuart Wilson, Regional Manager for Packers Plus based in Dubai, is responsible for the technical development of the multistage fracturing completion business.

Stuart earned a Masters degree in Mechanical engineering from the University of Hertfordshire, in the UK. Stuart started in the oil industry as a field engineer 17 years ago. He has been involved in the international multistage activities over the last 7 years. He is the author of several papers on multistage completions, and well invention technology.

Presentation: ***Acid Stimulation of Carbonate Reservoirs using Limited Entry Open Hole Multistage Systems***

Matrix acidizing of carbonate reservoirs requires accurate acid placement and is a major challenge because the acid tends to flow preferentially toward the highest permeability areas. This can result in overstimulation at these intervals leaving the lower permeability regions untreated. A limited-entry open hole multistage system has been successfully installed in the Middle-East Carbonate formations resulting in significant increases in production over conventional matrix acidizing methods.

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