

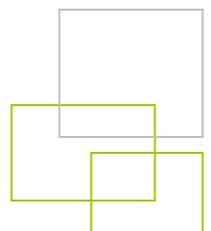
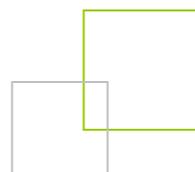
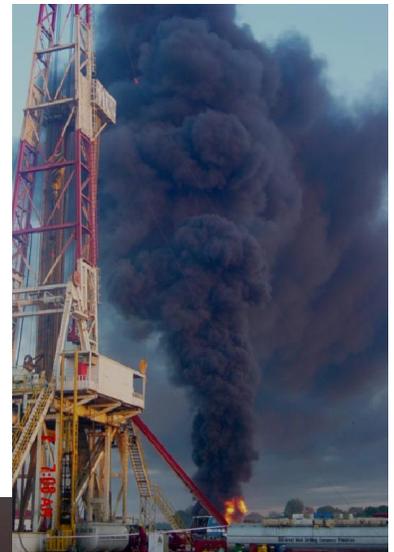


# OCEAN PAKISTAN LIMITED

**Ocean Pakistan Limited ("OPL") is an Oil and Gas Exploration and Production Company registered under the laws of the Cayman Islands with limited liability.**

**It is a successor in interest to Orient Petroleum International Inc., Orient Petroleum Inc. (formerly Occidental of Pakistan, Inc.) a USA based company that began petroleum exploration in Pakistan in 1979.**

**Within 5 years of commencing E&P activities it landed with its first, and Pakistan's largest oil discovery at Dhurnal. To cap a meticulous and impressive operation, full production began within 20 days of the discovery.**



# WHO WE ARE

Prior to March 31, 1995 Orient Petroleum Inc., (now OPL) was a wholly owned subsidiary of Occidental International Exploration and Production Company (OIEPC). Effective that date, OIEPC sold its entire capital stock holding in Orient Petroleum Inc (OPI) to the Hashoo group of companies. Accordingly, since March 31, 1995 OPI has been a company of the Hashoo Group.

After 1995, OPL embarked on a comprehensive expansion and growth path aided by a competent and diligent workforce. This saw the company acquire the largest acreage amongst E&P companies in Pakistan.

OPL also, successfully acquired 25% Government of Pakistan share in Dhurnal and Ratana fields. It was also the major competitor to British Petroleum in the bid for the Badin Concession with US\$ 125 million bid. As of today OPL holds 03 Operating and 02 non-Operating Development and Production Leases, 03 Exploration Licences along with Joint Venture participation in various Blocks in Pakistan.

It has entered into successful joint ventures with prominent local and foreign companies involved in E&P activities in Pakistan. These include Oil & Gas Development Company Limited, Attock Oil Company Limited, Pakistan Oilfields Limited, OMV Maurice Energy Limited (formerly Petronas Carigali (Pakistan) Ltd.), Government Holdings (Private) Limited and Zaver Petroleum Corporation (Pvt.) Limited.

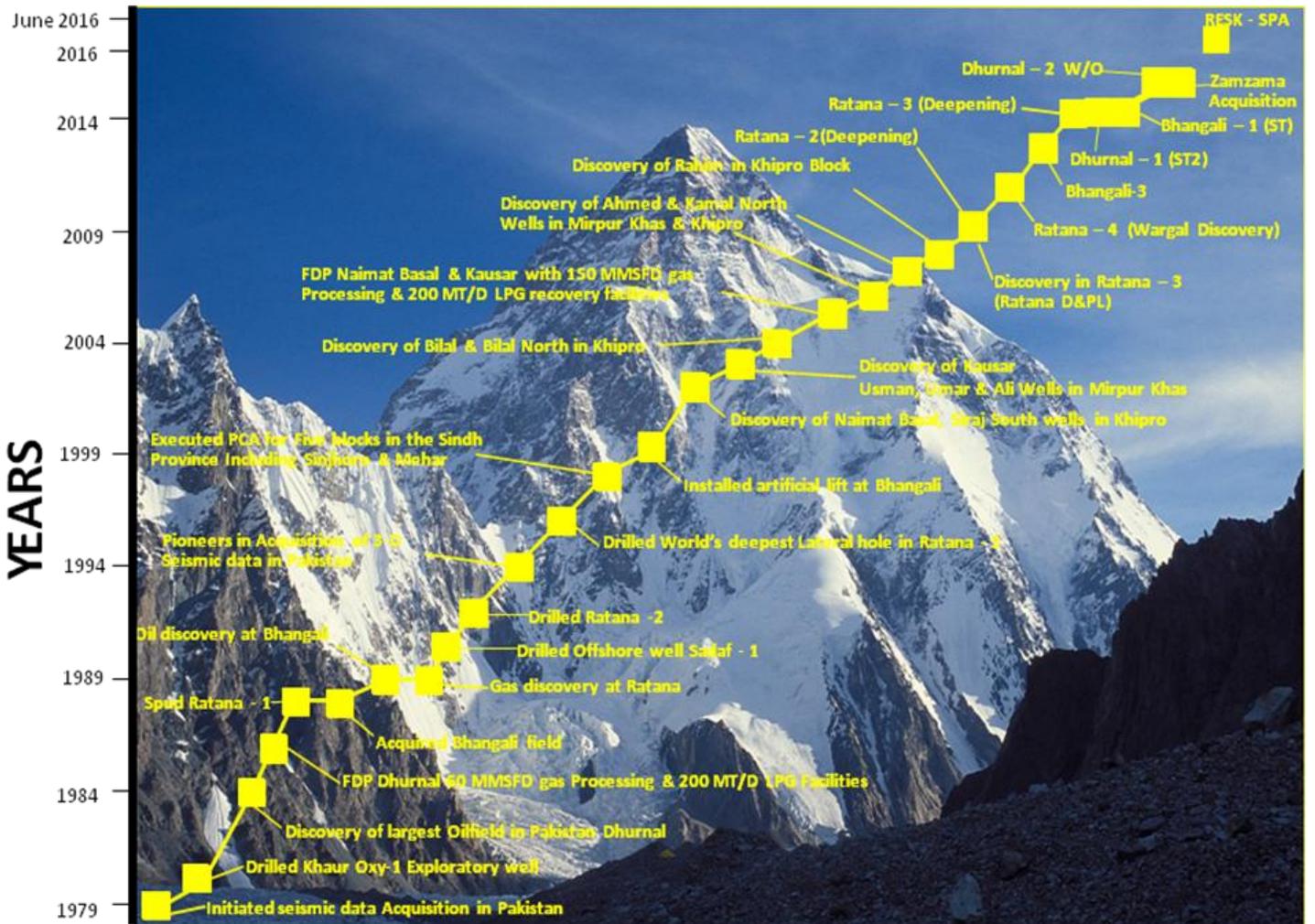
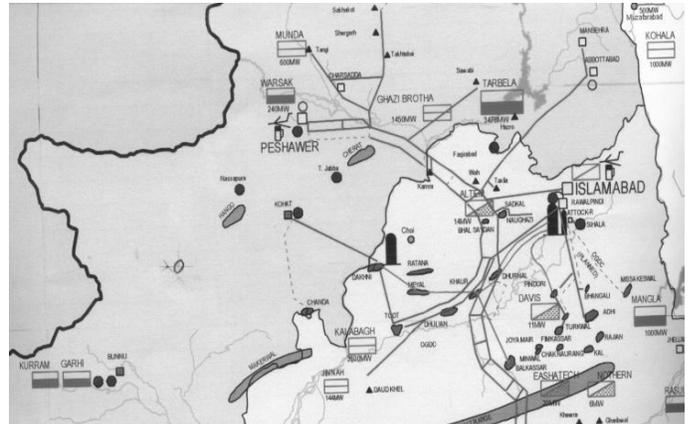
These partnerships have not only helped OPL add value to its existing operations but also signals its credibility as a major player in Pakistan's oil and gas sector endorsed by the trust placed on it by its joint venture partners.



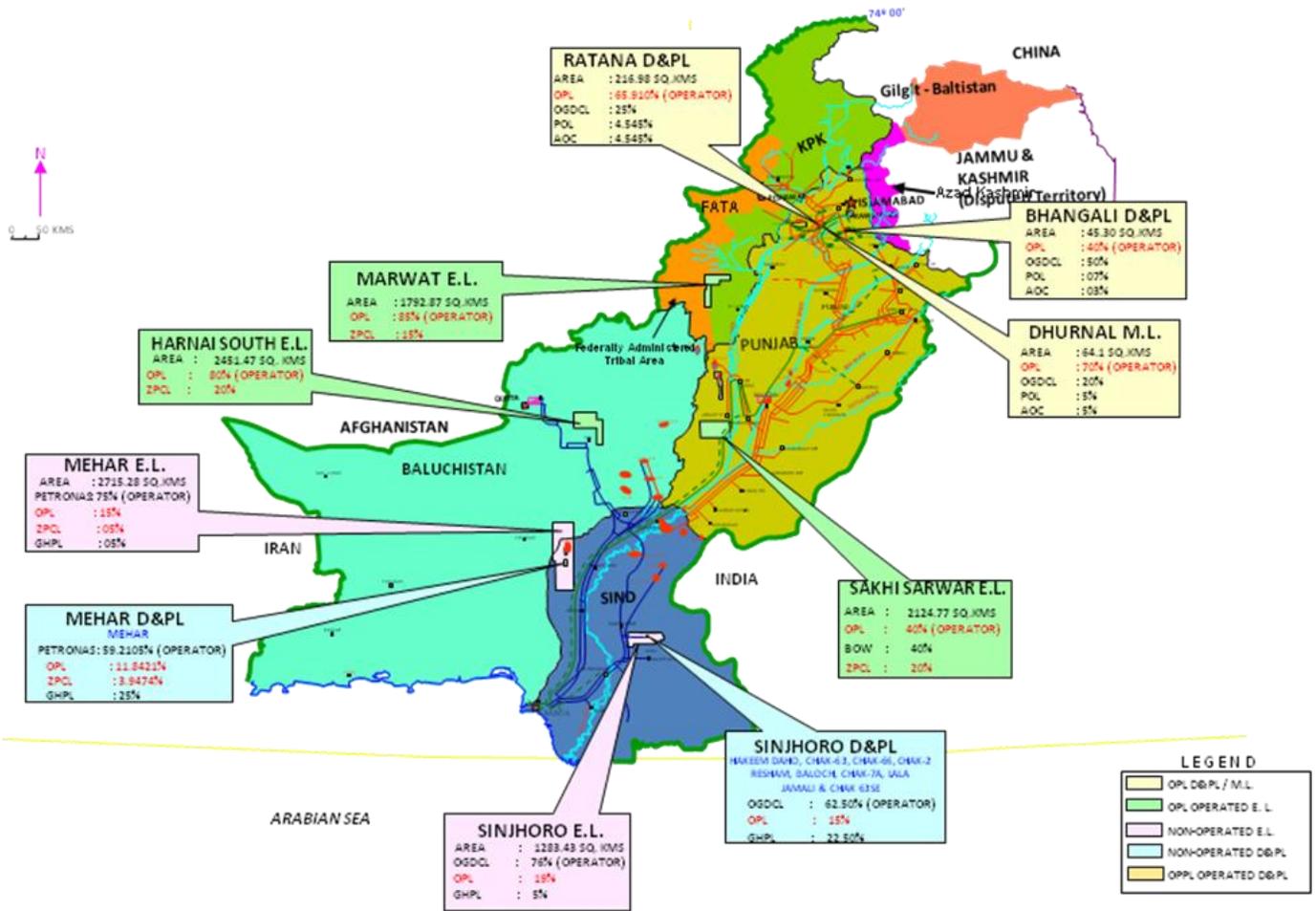
Dhurnal Produced Water Facility

**1979. Within 5 years of commencing E&P activities it landed with its first, and Pakistan's largest oil discovery at Dhurnal. To cap a diligent and impressive operation, OPL began full production within 20 days of the discovery.**

# TAPPING THE EARTH



# OPERATED/NON-OPERATED ASSETS IN PAKISTAN



## PAKISTAN

### DHURNAL MINING LEASE & FACILITIES

Dhurnal oilfield located 60 Kms. southwest of Islamabad in the Potwar Plateau, Upper Indus Basin. It was discovered in 1984. The working interest owners in D&PL are OPL (operator) 70%, OGDCL 20%, POL 5% and AOC 5%. Seven wells have been drilled on Dhurnal structure, out of which four are producers while the remaining three are water injectors. In order to ensure stabilized production, efficient water disposal & maximize recovery, an environment friendly water injection recovery project was implemented in 1987. This was the first ever secondary recovery project in Pakistan. Dhurnal was the largest oil producing field in Pakistan with peak production of 20,162 BOPD in 1988.



Dhurnal field has produced around 50.73 MMSTB of oil, 131.68 BSCF & 393.28 M.MT of LPG of gas from all three fractured carbonate reservoirs, i.e. Chorgali/Sakesar, Patala & Wargal as of March 31, 2017. Cumulative volume of water injected in all the three reservoirs is around 92.5 MMBBLS. The Production from Dhurnal wells has been enhanced in 2015 by placing them on artificial lift. Currently Dhurnal-1, 2 & 6 wells are producing around 400 STB/D of oil and 1.0 MMSCFD of gas on artificial lift system.

The production facilities consist of 30 MMSCFD capacity gas dehydration unit, HP separators, LP separators with de-salters, coolers/heat exchangers and storage tanks. One HP gas compressor powered by gas driven engines is used for gas lift purposes. Dhurnal field generates its own electric power with the help of one generator which runs on fuel gas produced in the field. In addition to this, one diesel generator is standby also.

### BHANGALI DEVELOPMENT & PRODUCTION LEASE & FACILITIES

Bhangali field is located about 60 kms. South of Islamabad in the Potwar Plateau of the Upper Indus Basin. The field was discovered & started regular oil/gas production in 1989 after successful drilling/completion of Bhangali-1 in the naturally fractured carbonate Chorgali/Sakesar reservoirs. The working interest owners in D&P Lease are OPL (operator) 40%, OGDCL 50%, POL 7% & AOC 3%.



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Three wells have been drilled on Bhangali structure. Bhangali-1 produced through natural lift before it was placed on gas lift in 1998. The gas lift installation resulted in enhancing the recovery factor significantly. Bhangali-1 remained on production till the end of 2009. Bhangali-2 was in water leg & was used for water injection for a short while. In 2011, OPL acquired 119 Sq. kms 3D seismic which appeared very promising for drilling a new well down to Tobra & Khewra. Bhangali-3 was drilled in 2014 to target undrained up dip potential of Chorgali/Sakesar. Well was encountered 326 feet shallower than Bhangali-1 and produced water possibly due to nearby fault & its evaluation is underway. Later on, Bhangali-1 was side track in Q3-4 2015 and currently well is on intermittent flow, producing 200 STB in a month. Currently Bhangali 3D seismic re-processing is in progress. Bhangali field has produced around 3.75 MMSTB of oil and 9.276 BSCF of gas from the Eocene reservoir as of March 31, 2017.

The Production facilities consist of one HP separator, Coolers/heat exchangers and plant storage tanks. The field is electrically powered with the help of one diesel generator while the second is standby.

## RATANA DEVELOPMENT & PRODUCTION LEASE & FACILITIES

Ratana field is located approximately 100 kms. South West of Islamabad in northern Punjab Province in oil producing Potwar region. Discovery was made in 1992 whilst production started in July 1993. The working interest owners in D&P Lease are OPL (Operator) 65.91%, OGDCL 25%, POL 4.545% & AOC 4.545%. Field is divided into two main compartments; eastern & western. Chorgali/Sakesar, Patala, Lockhart, Datta & Wargal are the five proven reservoirs with over 2500 feet of hydrocarbon column. Four wells with various sidetracks have been drilled on Ratana structure. Currently, Ratana-2 & 4 wells are producing around 6.5 MMSCFD gas, 275 BBLS/D of condensate and 12 M.ton/d of LPG. Ratana field has produced around 63.64 BSCF of gas, 2.85 MMSTB of condensate and 48.13 M.MT of LPG as of March 31, 2017. Presently, planning is progress to acquire wide azimuth 3D seismic and drill a new well during 2017.



The production facilities are installed at Ratana-2 location which includes 20 MMSCFD capacity amine sweetening plant, 30 MMSCFD capacity dehydration unit, two HP separators, condensate storage tanks and loading bay etc. The produced gas is send to POL Meyal facilities for gas processing and LPG recovery. The field is electrically powered with the help of one diesel generator while the second is standby.

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### SINJHORO BLOCK

Sinjhero block is located in district Sanghar, Sindh Province, Pakistan. The Sinjhero E.L covering an area of ~ 179.31 sq.kms. was awarded to joint venture of OGDCL (operator), Government Holdings (Private) Limited (GHPL) & Ocean Pakistan Limited (OPL) on December 29, 1999 for the period of ten years. Nineteen exploratory & six appraisal wells have been drilled so far, out of which, ten discoveries have been made. Sinjhero development consists of a number of fields discovered in proximity of each other with in the Sinjhero Exploration License namely Baloch, Chak-2, Chak-63, Chak-63SE, Chak-66, Chak-66NE, Chak-7A, Hakeem Daho, Lala Jamali and Resham. The working interest owners in D&P Lease are OGDCL 62.5%, GHPL 22.5% & OPL 15%.

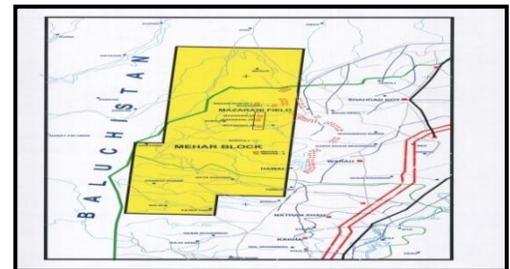
Phase-1 completed & production started in January 2013 with 15 MMSCFD gas & 1000 STB/D oil. Later on, Phase-2 was successfully completed in Q3 2015. Ten wells are currently producing around 2,950 STB/D of oil/condensate, 40 MMSCFD gas & 155 M.Ton/D of LPG. Cumulative production from the block as of March 31, 2017 is 2.61 MMSTB oil/condensate, 34 BCF gas & 77.33 MMT LPG.

The existing surface facilities include gas sweetening plant, dehydration unit, LPG recovery unit, HP/MP/LP separators, front end booster compressors, sale gas compressors, oil/LPG storage tanks & loading system.

Presently, 952 sq. kms 3D seismic re-processing has been completed & its interpretation is underway. The plan is to drill one exploratory well in Q3 2017.

### MEHAR BLOCK

Mehar Block is located in mountainous terrain approximately 190 km west of Sukkur and 300 Km north of Karachi, Sindh province, Pakistan. Mehar E.L originally covering an area of 5030 sq. kms was awarded to OPII in December 29, 1999.



PETRONAS Carigali farmed in the block with operatorship on May 11, 2000 & made gas/condensate discovery in 2003 after successful testing of Mehar-1 from Pab & Lower Ranikot sandstone reservoirs of cretaceous age. So far, two prospects Mehar & Sofiya in the block proved to be hydrocarbon bearing while Mitto & Kakrio leads are under evaluation. To date, seven wells have been drilled in Mehar Block, out of which four wells namely Mehar -1, 2, 3 & Sofia-2 are producers while the remaining three wells Basharat # 1, Mehar North # 1 & Sofia # 1 have been P&A.

PETRONAS sold its entire shareholding to OMEL in July 2011. Current working Interest owners in Mehar D & PL are OMEL as operator 59.2105%, GHPL 25%, OPL 11.8241% & ZPCL 3.9474%.

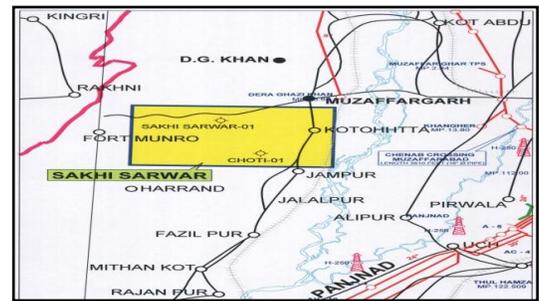
# PAKISTAN

Production from the block started on November 29, 2013 after tie-in Mehar-3. Presently, wells Mehar-1, 2 & 3 are flowing in production system. Sofia-2 is shut in waiting for tie-in with Mehar gas processing plant & hopefully will be completed in Q3 2017 to enhance production by around 15 MMSCFD gas & 1350 STB/D condensate.

Mehar surface facilities consists of amine sweetening & dehydration plants each of 30 MMSCFD capacity, hydrocarbon dew point control unit (HCDP), well gathering network, HP separators, sale end compressors & condensate storage facility. Currently, field is producing around 14 MMSCFD gas & 800 BOPD. Cumulative production from the field as of March 31, 2017 is 25.53 BSCF gas & 2.01 MMSTB condensate.

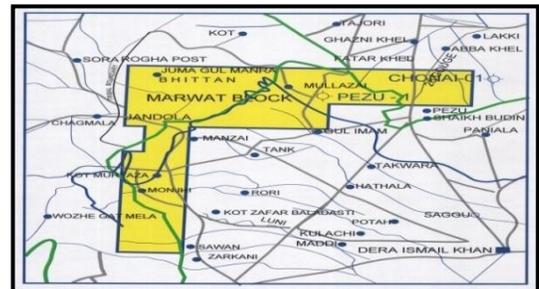
## SAKHI SARWAR BLOCK

OPL and ZPCL were awarded Sakhi Sarwar Block located in District D.G. Khan and Rajanpur, Punjab Province. Operator, OPL, has undertaken a seismic survey of 200 kms and re-entry in Sakhi Sarwar well. OPL is planning to drill a new exploration well in this exploration licence.



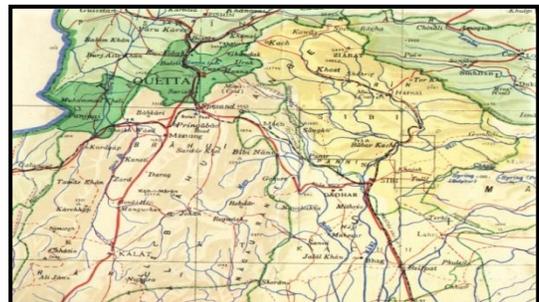
## MARWAT BLOCK

OPL signed Marwat EL along with ZPCL on January 22, 2007 wherein OPL plans to carry out 100 Kms of 2D Seismic acquisition in addition to Geology & Geophysical studies and reprocessing of vintage seismic. Surface Geological surveys were carried out in 2012-13.



## HARNAI SOUTH BLOCK

OPL and ZPCL signed Harnai South EL on February 16, 2010, located in District Sibi of the Balochistan Province. OPL/ZPCL are committed to make a minimum investment of US@ 2.55 MM. OPL has plans to acquire 186 sq. km of reconnaissance seismic survey over this block.



# OUR MANAGEMENT



OPL is proud of the fact it is harnessing & utilizing the vast experience, expertise and technical know-how of professional Pakistani nationals having over 150 years of related experience. It also provides employment to over 400 well-trained & dedicated employees working to meet our common goal and vision.

Our operations in previously declared force majeure areas resulting in successful discoveries do more than just making a simple success statement. It goes to show our sound management and employee dedication, diligence and competence.

We take pride in our team's capabilities to engineer and embark upon financially and technically viable projects. OPL is home to many financial and technical innovations in our respective field of business that have enhanced the company's existing reputation and have provided major impetus to overall growth of the company.

**SADRUDDIN HASHWANI**, chairs the Board of Directors and a team of highly experienced and respected personnel head the company management. He is also the Chairman of the Company.

**KAMRAN AHMED**, Chief Executive Officer (CEO), holds a BSc degree in Business Management & Finance from Cornell University in the U.S.A. and has a postgraduate degree in Banking and Economics from Cyprus. Kamran has over 30 years of experience in investment banking in the oil & gas upstream and downstream industry including working with Shell Pakistan and the Islamic Investment Bank Ltd. He has been with the Hashoo Group Oil & Gas division for 12 years and is accredited as being a key player in the growth of OPL in Pakistan. Kamran has benefitted from many professional seminars and trainings locally within Pakistan as well as contributing to workshops in Turkey, India, Belgium and Malaysia.

**MAXIMILIAN (MAX) FELLNER**, Chief Operating Officer, holds a BSc in Technical Chemistry, a BSc and MSc degree in Petroleum Engineering and an MBA degree. Max has 27 years experience focusing on onshore and offshore oil & gas field developments and redevelopments in Austria, Germany, Libya, Pakistan, Romania, Kazakhstan and Egypt. His experience covers the E&P full life cycle from field appraisal to field development and production including the commercial and contractual aspects for more than 10 field development projects. Max thrives in difficult and complicated situations and environments and is an innovative, resourceful, and passionate leader building strong and successful teams. Change and turnaround management with a focus on multicultural teams became Max's specialty with a 100% success rate so far.

## PAKISTAN

**Professor STUART D BURLEY**, Senior Vice President Exploration and Geoscience, holds a PhD in Geochemistry from the University of Hull in the UK and an Honorary Chair in Petroleum Geoscience at the University of Keele. Stuart has 25 years of exploration and development experience in the oil and gas business in many countries around the world having built and led successful teams in BG, Cairn and Murphy. He has applied creative geoscience to generate new hydrocarbon prospectivity in several new and established basins and teams he has managed have been credited with significant discoveries. Stuart has also been directly involved in many field development projects, including the West Nile Delta gas fields, giant Mangala, Aishwaryia and Bhagyamoil fields of the Barmer Basin in Rajasthan, India, and several fields on the NW Borneo shelf margin. Stuart continues to leverage geoscience research in the search for hydrocarbons and is the author of over 100 technical articles in petroleum science.

**M. A. SHAHID**, General Manager Petroleum Engineering & Evaluation, holds a B.Sc Engineering Degree (Honours) from (M.E.T.U) Ankara, Turkey and Masters of Engineering Degree (Honours) from (A.I.T) Bangkok, Thailand. He also holds Masters Degree in Petroleum Engineering (Distinction) from Heriot Watt University, Edinburgh, Scotland, U.K. Shahid has over 32 years of diversified experience with local and multinational E&P operating companies and international oil and gas service companies including Schlumberger and Occidental of Pakistan Inc. He has been directly involved in the development of several oil and gas assets while simultaneously heading the Petroleum, Reservoir, Drilling and Evaluation departments. His experience includes drilling, testing & completion, reservoir management and simulation of deep HPHT challenging wells in North Potwar. His strong analytical skills have been instrumental in finding new oil and in rejuvenating old depleted fields and in production optimization and planning. He has attended numerous professional courses in Indonesia, France, U.K and USA and is an active member of the Society of Petroleum Engineers.

**TAUQEER A. NAYYAR**, General Manager Finance, holds a Masters degree in International Business from University of Southern Queensland, Australia and is a CA Finalist from the Institute of Chartered Accountants of Pakistan. He has 25 years of direct upstream oil & gas experience across activities in Finance, Accounting, Joint Venture Management, Treasury, Corporate and Commercial Contracting. He is an expert in economic analysis, Asset Management and farm-out & merger activity with experience of both offshore and onshore projects.

**AKBAR ALI KHAN**, General Manager Operations has 28 years of experience in the Petroleum industry with strong technical background in Operational Management, Process Optimization, Cost Reduction, Customer Relations, Productivity Improvement, Operational & Strategic Planning, Joint Venture Relations, Project Management, Turnaround Situations, and Budgeting/Forecasting. He holds bachelors of Engineering from university of Engineering and Technology Lahore Pakistan with Honours, and has later done his Master's in Business Administration with majors in Finance from Islamabad. He started his career with Schlumberger in 1988 and later worked for Attock Refinery and then moved to BHP in 2003. He has attended numerous professional courses locally and outside Pakistan in Australia, Japan, Singapore, Dubai, Sweden, Korea.

## PAKISTAN

**ZAHEER A. ZAFAR**, General Manager Exploration, holds a Master's degree in Geophysics from Quadi-e-Azam University, Islamabad. He has 24 years of extensive exploration experience with several national & international companies. Zaheer has numerous oil and gas discoveries to his credit in basins of Pakistan of which he has developed a deep technical understanding. Starting his career as a geophysicist in 1991 with Seismograph Services, he has progressed his professional career through seismic acquisition and processing into interpretation, including experience with OGDCL, British Gas International, SAF Energy and latterly with Mari Petroleum Company Limited as Manager Exploration. Zaheer's association with Ocean Pakistan Limited dates back to 2002 and he has served as Senior geophysicist, Principal Geophysicist, Manager Geophysics and Manager Exploration.

**MUHAMMAD SAEED AKHTAR**, General Manager Reservoir Engineering, has 25 years of experience in the petroleum industry developing a strong technical background in Reservoir Management, Reservoir Simulation, Asset Evaluation, Field Development Planning, Well Testing, Production Optimization & Well Operations. After completing his B.Sc. degree in Petroleum Engineering from the University of Engineering and Technology Lahore, Pakistan, with Honours (Gold Medallist), he started his career with Pakistan Oilfields Limited (POL) as a Reservoir Engineer in 1992. He has subsequently worked with OGDCL, Petroleum Exploration Ltd., Govt. Holdings (Pvt.) Ltd., Dewan Petroleum Limited and Spud Energy Limited where he held the post of GM Reservoir & Production Engineering. He has attended numerous national and international professional courses. He is a member of the Society of Petroleum Engineers.

**ABDUL RAZZAQ**, General Manager MIS & Communication, has over 35 years of experience in managing various IT functions in a spectrum of E&P organisations, most notably with Pakistan Petroleum Limited, USAID, the US Geological Survey and Pakistan Oilfields Limited. In this diverse spectrum of companies Abdul Razzaq has implemented and managed a wide range of advanced information technology systems, and being member of the USGS Advisory team, he established the National Geodata Center of the Geological Survey of Pakistan, the first center operated as a Data Bank for geo-science related information in the country.

## **PAKISTAN**

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