

PANORÁMA

PAKISTAN

MOL Discoveries in Pakistan

Manzalai 2002

Makori - 2005

Mamikhel - 2008

Maramzai - 2009

Makori East - 2010

Tolanj - 2011

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► MD's Message

My dear colleagues, each new assignment you get in your life gives you mixed feelings. You are excited because you have been given new responsibilities and you are apprehensive because you have to face new challenges. I am indeed delighted to come to Pakistan. Contrary to media perceptions Pakistan is a beautiful country and its people are welcoming and hospitable. People of Pakistan are most talented people of the region. Indeed my predecessors have laid down a solid foundation and then erected a whole structure... that is today MOL Pakistan and its exploration and production activities in Pakistan. I realize that my job is to take care of this beautiful structure and expand and beautify it.

The biggest challenge perhaps that I will be facing will be stepping into the shoes of some very worthy predecessors like Mr. Janos Feher who have made MOL Pakistan and MOL group so proud of its achievements in Pakistan.

As regards this Newsletter, when I took a quick review of the previous issues of Panorama, I could not help praising the high standards consistently maintained by Editorial Team in terms of content, visuals and print quality. I am told this newsletter is being designed in the light of suggestions and comments of readers, this indeed is praiseworthy. The current issue highlights details of IPIMS program. MOL being a responsible corporate entity attaches full importance to CSR initiatives. In this regard you will find details of free medical camps established and sponsored by MOL Pakistan at District Hangu. I assure my colleagues and Pakistani friends that MOL Group stays committed to Pakistan and together we will work more diligently to continue improving Pakistan's energy security.



Ernő Lipták
Managing Director/CEO
MOL Pakistan Oil & Gas Co. B. V.

► Editorial Team

New edition of Panorama has been designed in the light of your invaluable suggestions which you have been sending to us regularly. As Pakistan's Oil & Gas sector expands continuously oil companies are attempting to take advantage of this growing sector by playing their part in the creation of new projects. MOL Pakistan has been carrying various projects both for the employees of this organization, general public and country. Chief among them is the "International Petroleum Industry Multimedia Systems" (IPIMS), an E-Learning Program which has been running successfully second time in the history of MOL Pakistan. IPIMS is an award-winning, interactive multimedia e-Learning system and E&P knowledge resource that covers all areas of Upstream Petroleum Technology. MOL Pakistan organized the first International Talent Program under the umbrella & initiative of MOL Group International Talent Program – 2011, whereby six employees were selected from MOL Pakistan after a tough & exhaustive screening & selection criteria. The aim of the ITP-Program was to identify and create a pool of talented team members; having potential of becoming International Project Managers in future. Also in the magazine you would find details of Free Medical Camp organized at Sanda Manzai in District Hangu. The camp received massive response from the local community and local elders appreciated the move. The community welcomed this initiative and provided maximum support to MOL Pakistan in organizing this activity. In the end we request you to continue supporting us through your comments and suggestions.



A Prologue to ▶▶▶ Drill Stem Test (DST)

A drill stem test (DST) is a temporary completion whereby the desired section of the open/cased hole is isolated and relieved of the mud column pressure through the drill pipe/tubing and formation

communicate with the well bore. First, DST assembly along with perforation guns (if required) are lowered in the well to the desired depth, packer is set to isolate the mud column pressure to create under

testing operations. Strong emphasis is laid on to achieve the pre-defined test objectives in a safe, environmentally responsible and efficient manner. Testing planning & operations are being carried



fluid is allowed to flow to the surface under controlled conditions. A prospective formation interval for DST is selected based on formation cutting analysis and open hole logs results.

The basic objective of the drill stem test is to estimate/measure the reservoir and surface parameters along with representative reservoir fluid samples. These parameters are basic information for an engineer to establish the probability of commercial volumes of hydrocarbons. Working in El Dorado, Arkansas, in the late 1920s, E.C. Johnston and his brother M.O. Johnston developed the first drill stem tester in 1927 and subsequently refined it in the early 1930s. The basic drill stem test tool consists of a packer or packers, valves or ports that may be opened and closed from the surface through hydraulic pressure and pressure & temperature recording devices.

A drill stem test can be classified in to following three types based on the Downhole conditions:

- Open hole Drill Stem Test: when testing interval is an open hole and packer is also set in open hole.
- Barefoot Drill Stem Test: when testing interval is an open hole and packer is set inside the last set casing.
- Cased hole Drill Stem Test: when testing interval is behind the casing and perforation guns are used to puncture the casing to allow the formation to

balance conditions for formation fluid to enter well bore. Well is opened to allow the formation fluids to flow at surface through surface equipments. Typically surface equipments consist of a flow head, choke manifold and a separator to separate and measure the different flowing phases in the well stream.

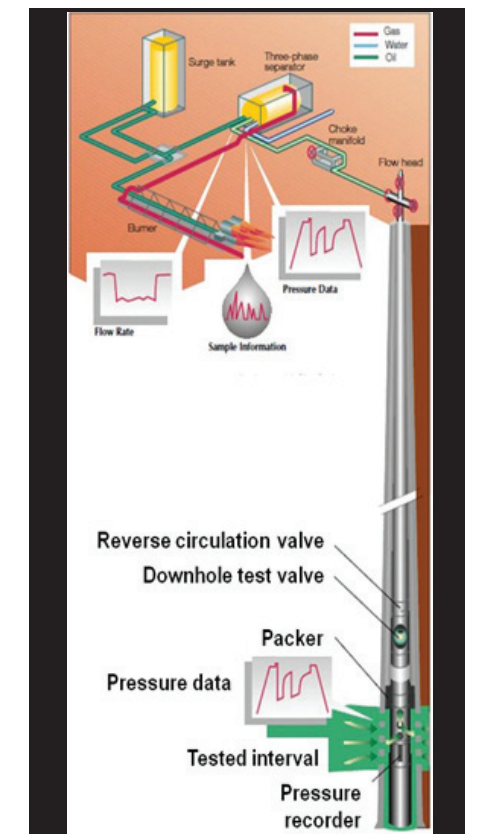
Fig-1 A typical DST Downhole & Surface equipment schematic

Well test down hole data (pressure & temperature data) along with surface measured parameters (flow rates, densities, pressure, etc) is then interpreted to estimate reservoir parameters like permeability, skin, Reservoir pressure, boundary conditions and other key parameters. Entire information is vital in design/selection of best suited well completion. Testing data and interpreted parameters are used for reservoir characterization and in turn play a key role in devising optimum field development strategy.

Proper planning and consideration of the factors involved are essential to carry out successful testing operations. During the entire testing operations, due consideration is given to the safety of personnel and equipment. Specialized safety equipments are used at surface and downhole to cater for any hazardous situation.

MOL Pakistan since after drilling of its first well in TAL Block is carrying out extensive

out with close collaboration of Petroleum and Reservoir Engineers team assisted by Drilling team.



► PANORÁMA PAKISTAN is a quarterly newsletter of MOL Pakistan.

Success Stories ▶▶▶

MOL Pakistan Oil and Gas Co. B.V, a 100% owned subsidiary of the MOL Plc. started operation in Pakistan after the award of an exploration license and Petroleum Concession Agreement (PCA) over TAL Block (3370-3) on February 11, 1999. MOL Pakistan as operator of TAL Block has six successive discoveries to its credit.

▶ Manzalai - 2002

The first discovery was made at Manzalai-1 Exploratory well in December 2002.



▶ Makori - 2005

The second discovery was at Makori-1 Exploratory well in January 2005. After Extended Well Testing (EWT) at Manzalai and Makori discoveries, commerciality was declared on March 24, 2006 and September 30, 2009 respectively.



▶ Mamikhel - 2008

The third discovery of hydrocarbons was made on March 19, 2008 at Mami-Khel-1 Exploratory well which is currently under EWT production.

▶ Maramzai - 2009

The Fourth discovery, Maramzai-1 from the TAL block was made on October 13, 2009. The production from this well is 40 MMSCFD of natural gas and 1600 bbls/d of condensate. Mami-

Khel & Maramzai are being appraised as per approved appraisal program.

▶ Makori East - 2010

The presence of hydrocarbons has also been confirmed from Makori-East-1 and Tolanj X-1 exploratory wells on November 04, 2010 and February 14, 2011 respectively; which are still being drilled to evaluate to the deeper horizons.

▶ Tolanj - 2011

Tolanj X-1 is proved to be the 6th successive discovery in TAL Block. With this discovery MOL Pakistan has started producing more than 9000 bpd of condensate whereas Gas production has crossed 340 MMscfd per day.



Group Chairman ▶▶▶ SD-HSE Award 2010

MOL Pakistan participated in the Group Chairman SD-HSE Award 2010 which is the highest SD-HSE performance recognition Award in MOL Group. MOL Pakistan due to its exemplary achievements and participation was winner of the SD-HSE Award 2009 and this year selected amongst best SD-HSE compliant companies within MOL Group. MOL Pakistan MD/CEO Mr. Erno Liptak received the Award of Recognition from Group CEO Mr. József Molnár at annual Leadership Summit in Siófok, Hungary on 31 May 2011.

MOL Pakistan has successfully integrated requirements of MOL Group SD regulation. Annual SD action plans are developed, implemented & monitored by SD Panel comprising SD & Environmental Expert and representatives from line departments reporting to SD & HSE committee.

MOL Pakistan has established, maintained and implemented a very well structured and effective risk management system by combining various risk methodologies like PSM, HAZID, EIA/IEE, ERA, HAZOP, TRA / JSA and safety integrity limit assessment. The objective of this system is to operate fields in safe, efficient and environment friendly manner, while also meeting international standards requirements and community expectations.

More stringent HSE criteria for International and national contractors has been put into practice which mainly requires the contractors to maintain and implement their HSE Management

System in line with MOL Group HSE MS. Since local contractors are mostly carrying works that do not pose high risks to people, environment or assets, therefore, a simpler version of HSE requirements & guidelines are communicated to small local contractors. MOL Pakistan this year is concentrating on the HSE awareness of its local contractors to bring their awareness levels in line with company expectations for which rigorous trainings sessions and regular meetings are organized with local contractors.

MOL Pakistan today is 87% compliant with the requirements of MOL Group HSE IMS. The process of self assessment has enabled MOL Pakistan to effectively introduce the PDCA (Plan, Do, Check, Act) cycle in our operations by enabling us to better organize our priorities and projects. Focus is on continual improvement.



IPIMS E-Learning Program 2011 ▶▶▶

In continuation of MOL Pakistan commitment for employee development, The "International Petroleum Industry Multimedia Systems" (IPIMS), E-Learning Program developed by "International Human Resources Development Corporation IHRDC" is running successfully second time in the history of MOL Pakistan. IPIMS is an award-winning, interactive multimedia e-Learning system and E&P knowledge resource that covers all areas of Upstream Petroleum Technology. It provides a comprehensive and flexible learning system to build technical competencies tailored to meet

each individual's specific needs.

The program was launched in May, 2011 for MOL Pakistan for eleven Fresh Trainees hired in 2010. The program would help in their adjustment efforts in E & P sector in general & in MOL Pakistan. Besides, this program will also be instrumental to abreast them of latest technologies in oil & gas. Earlier, thirty seven 37 Fresh Graduate Trainees had benefitted from this training in year 2009.



MOL Eye Camp ▶▶▶

► Background and Justification

MOL Pakistan is driven by the highest standards of corporate governance and social responsibility. As a corporate citizen MOL Pakistan believes in building strong relationships with all the stakeholders with special focus on local communities in which it operates. Keeping in view this phenomenon, MOL Pakistan has always responded on the call from the local community specifically when the health of community is involved.

This time the requests from the neighboring communities were for medical camps in the area with special focus on lady doctor to be provided for the camp in the area. The requests were received from villages of Chanda Manzai (Makori East-1) in District Karak and Sarki Pila (Maramzai-1) in District Hangu. It was mutually agreed by MOL Pakistan and District Health Authorities that the Camp will be organized at Saada Manzai will be held on 22nd April, 2011 and that in Sarki Pila in District Hangu will be held on 29th April, 2011.

Keeping in view the request of the community a medical team comprising of 2 specialist doctors (including a lady doctor) and 2 paramedical staff from District Health Department Karak and District Kohat were arranged by MOL Pakistan to provide free check up and appropriate management during the camp.

The local community welcomed this initiative and provided maximum support to MOL Pakistan in organizing this activity.

During the Medical Camp at villages of Chanda Manzai and Alwargi Banda a total of 355 patients (including 154 women) were examined at Out Patient Department (OPD) and were issued free of cost medicines funded by MOL Pakistan.

While at Sarki Pila and Chamba Gul Villages more than 400 patients (including half of women and children) were examined and issued required medicine funded by MOL Pakistan.

► Response of the Local Community

The camp received massive response from the local community and local elders appreciated this move of MOL Pakistan for meeting this prioritized and dire need of the area.



جناب ارنو پلٹک کا پیغام



عزیز دوستو! زندگی میں ہر ذمہ داری آپ کو مختلف النوع خیالات سے دوچار کرتی ہے۔ ایک جانب آپ نئی ذمہ داریوں کے احساسات سے لبریز ہوتے ہیں تو دوسری طرف آپ کو یہ اندیشہ بھی رہتا ہے کہ آپ کو نئے چیلنجز کا سامنا کرنا پڑے گا۔ پاکستان آکر حقیقتاً مجھے خوشی ہوئی کیونکہ میڈیا پر آنے والے تاثرات کے برعکس پاکستان ایک انتہائی خوبصورت ملک ہے اور یہاں کے لوگ بہت ملن سار، با مروت اور مہمان نواز ہیں۔ پاکستانیوں کا شمار اس خطے کے باصلاحیت ترین لوگوں میں ہوتا ہے۔

یقیناً میرے پیش رو نے اپنی محنت سے ایک مضبوط ڈھانچا کھڑا کیا ہے جسے آج ہم ایم او ایل پاکستان کے نام سے جانتے ہیں جو پاکستان میں تیل اور گیس کے ذخائر کی دریافت کا کام کرتا ہے۔ مجھے بخوبی احساس ہے کہ اس خوبصورت ڈھانچے کو قائم رکھنے کے ساتھ ساتھ اس کو مزید وسعت دینا میرے فرائض منصبی کا حصہ ہے۔

میرے لئے سب سے بڑا چیلنج اپنے پیشرو جناب یانوش فیبر کے نقش قدم پر چلنا ہے جنہوں نے اپنی محنت اور کارکردگی کے بنا پر ایم او ایل پاکستان کو ایک قابل فخر ادارہ بنا دیا ہے۔ مول گروپ کو ان کی کارکردگی پر بلاشبہ فخر ہے۔

جب میں نے اس نیوز لیڈ کے پہلے شمارے کا جائزہ لیا تو ایڈیٹوریل ٹیم کی محنت، اس کی ڈیزائننگ اور چھپائی کے معیار سے بہت متاثر ہوا۔ مجھے یہ بھی بتایا گیا ہے کہ تازہ شمارے کو قارئین کی آراء اور تجاویز کی روشنی میں ترتیب دیا گیا ہے جو درحقیقت قابل تحسین ہے۔

ایم او ایل ایک ذمہ دار کارپوریٹ ادارے کی حیثیت سے تنظیمی اور سماجی ذمہ داریوں کو بہت اہمیت دیتا ہے۔ اس حوالے سے قارئین کے لئے ایم او ایل پاکستان کے زیر اہتمام ہنگو میں فری میڈیکل کمپس کے بارے میں تفصیلات بھی اس شمارے میں موجود ہیں۔

نئے شمارے میں آئی پی آئی ایم ایس پروگرام کے بارے میں مکمل معلومات دی گئی ہیں۔

میں اپنے ساتھیوں اور پاکستانی دوستوں کو یقین دلاتا ہوں کہ ایم او ایل گروپ اپنے موقف پر قائم ہے کہ ہم پاکستان میں توانائی کے بحران پر قابو پانے کے لئے مل کر کام کرتے رہیں گے۔



 ارنو پلٹک

ادارتی ٹیم کا پیغام

پیو راماکا نیٹیشن آپ کی آراء اور تجاویز کو مد نظر رکھ کر ترتیب دیا گیا ہے۔ پاکستان میں شعبہ تیل و گیس میں مسلسل توسیع سے تیل کمپنیاں بھرپور فائدہ اٹھا رہی ہیں اور نئے منصوبے بنا کر ملک کی معاشی ترقی میں اپنا بھرپور کردار ادا کر رہی ہیں۔

ایم او ایل نے اپنے ملازمین، عام لوگوں اور ملک کے مفاد کے لئے متعدد منصوبے شروع کئے ہیں جس میں انٹرنیشنل پٹرولیم انڈسٹری ملٹی میڈیا سسٹمز (آئی پی آئی ایم ایس) سب سے اہم ہے۔ یہ ایک الیکٹرونک لرننگ پروگرام ہے جو ایم او ایل کی تاریخ میں دوسری مرتبہ کامیابی سے جاری ہے۔ آئی پی آئی ایم ایس ایک ایوارڈ وننگ انٹرا کیٹیو ملٹی میڈیا ای لرننگ سسٹم اور ایکسپلوریشن اینڈ پروڈکشن کے بارے میں معلومات کا اہم ذریعہ ہے جو آپ سٹریم پٹرولیم ٹیکنالوجی کا احاطہ کرتا ہے۔

ایم او ایل پاکستان نے مول گروپ انٹرنیشنل ٹیلنٹ پروگرام 2011 کے زیر سایہ انٹرنیشنل ٹیلنٹ پروگرام (آئی ٹی پی) کا اہتمام کیا تھا جس میں ایم او ایل پاکستان کے چھ ملازمین کا انتہائی سخت سکریننگ اور سلیکشن البت کے بعد انتخاب کیا گیا۔ آئی ٹی پی کا مقصد محنتی اور باصلاحیت ٹیم ممبران کا انتخاب تھا جن میں مستقبل کے انٹرنیشنل پروڈکٹ مینجری کی تمام تر اہلیت پائی جاتی ہو۔

اس نئے شمارے میں قارئین کے لئے ضلع ہنگو کے علاقہ ساندہ مانزائی میں مفت میڈیکل کمپ کے بارے میں مکمل تفصیلات بھی شامل ہیں۔ اس کمپ کے انعقاد کو مقامی عوام اور عائدین کی جانب سے بے حد سراہا گیا جبکہ مقامی کمیونٹی نے ایم او ایل پاکستان کو مکمل تعاون کا یقین دلایا ہے۔

ٹیم ایم او ایل

ایڈیٹوریل بورڈ

پیٹر: ارنو پلٹک

ایم ڈی سی ای او

ایڈیٹر: گل فراراجہ

ایڈیٹوریل ٹیم

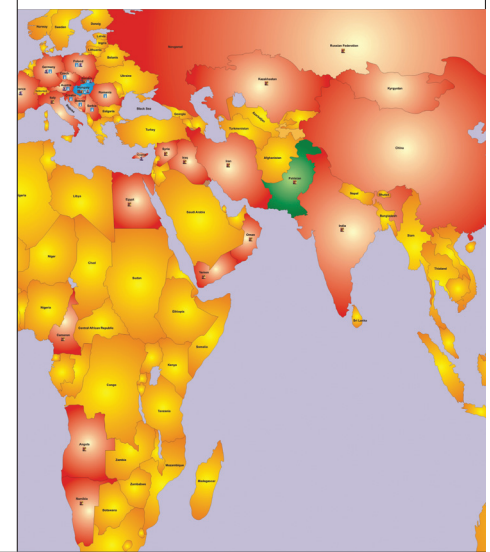
شہباز خان

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▶ پیو راماکا پاکستان ایم۔ او۔ ایل۔ پاکستان کا سہ ماہی نیوز لیٹر ہے۔



International Talent Program (ITP) 2011 ▶▶▶

MOL Pakistan Human Resources organized the first International Talent Program under the umbrella & initiative of MOL Group International Talent Program – 2011, whereby six employees were selected from MOL Pakistan after a tough & exhaustive screening & selection criteria.

The aim of the ITP-Program was to identify and create a pool of talented team members; having potential of becoming International Project Managers in future, foreseeing the expansion in MOL Group's worldwide operations. The ITP-Process was run by applying well structured uniform selection methods throughout the MOL Group. The program is focusing on intercultural cooperation, virtual team work and practical project management knowledge. The candidates have been selected after going through comprehensive stages of selection process.

In first stage, total of 107 applications were received, out of which 60 were shortlisted in initial screening phase. 54 appeared in a third party online psychometric test in next phase of program, out of which 21 were further shortlisted for the proceeding stage, i.e.

structured Interviews and Group Discussion. In the final stage, six candidates were selected for which ITP-Kick off meeting was organized on May 25, 2011.

The ITP-Kick off meeting was organized in order to support the selected six candidates in best possible way and to give them deeper understanding on ITP Program. The meeting was formally started by Mr. Ernő Lipták who presided over the meeting at local level. Thereafter, Mr. Zoltán Áldott (Executive Vice President, Exploration and Production, President of the Management Board, INA d.d.) and Mr. László SZŐCS (MOL GROUP - Senior Vice President Human Resources) addressed the selected participants of the ITP through Video Conference, highlighting the essence of Talent Program initiative and the future plans associated to it. Meeting was formally closed by Mr. Qazi Shujaat Ali (Head HR, MOL Pakistan) who covered further aspects regarding ITP besides congratulating them on their success.



MOL Pakistan

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پنوراما پاکستان آپ کی قیمتی آراء کا منتظر ہے۔

آراء کیلئے

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