

# DRILLING COMPANY INTERNATIONAL



شركة بين الملل حفاري

DRILLING COMPANY INTERNATIONAL





# Our Company



## Drilling Company International (DCI)

Drilling Company International (DCI) was established in 2009 as the executive subsidiary of PEDCO to provide offshore drilling rigs and services.

Employing latest technologies and state of the art equipment, DCI has expanded its offshore drilling competency. DCI has established subsidiary companies specialized in providing drilling services utilizing reputable domestic and foreign companies through joint ventures, share acquisition, and other arrangements. DCI has also set up operational centers through requisition of advanced equipment, training and technology localization.

DCI has been actively supplying and maintaining drilling sets and providing services as required by oil and gas fields. Today, DCI is capable of participating in overseas projects utilizing its advanced equipment and skilled personnel.

We manage and provide different technical services in house or through local and international reputable service companies for different drilling projects. These services include:

- Project Management
- Directional Drilling
- Drilling Fluid
- Logistics
- Casing and Tubing Running
- Fishing
- Cementing
- Liner Hanger
- Whip stock and Window Opening
- Wellhead
- Well Testing and Stimulation
- Coiled Tubing
- Wire line
- Geotechnical /Geophysical Sea bed Survey and Rig Positioning
- ROV / Saturated Diving
- H<sub>2</sub>S

# Our Mission

- Providing rig and well services for drilling industry
- Providing offshore maritime solutions
- Providing logistics services
- Providing engineering solutions for offshore jack up drilling rigs

# Our Strategy

- Gaining more added values through application of our know how, technology, innovation and highly skilled experienced human resources for the best quality.
- Observing the HSE values and regulations that we have to adhere to as our social responsibilities.

## QHSE Award and Certificates



2014

2016





# QHSE Policy



Drilling Company International (DCI) complies with the requirements of ISO 9001-2008, ISO29001-2010, ISO 14001-2004 and OHSAS 18001-2007.

Company values and policies, clearly understood and followed by all personnel, are:

#### **Company's Work Related Policies:**

- 1.** Provision of safe and healthy working areas and dedication to environmental protection.
- 2.** Use of national and international regulation and standards as the activities guidelines and continuous improvement of integrated management system (IMS).
- 3.** Development of the HSEQ culture by strengthening the corrective and proactive believes, and providing the required trainings.
- 4.** Continuous improvement of company reputation and development of national and international share.
- 5.** Improving stakeholder satisfaction and customer loyalty.
- 6.** Increasing the employees motivation by using their suggestions and involving them in the company decision makings;
- 7.** Attempting to reduce the predictable risks, environmental pollutant and optimizing energy and resources consumption;
- 8.** Identification and control of the main changes in the company technical and operational activities in order to manage the risks of the changes

#### **Company Commitment and Work Values:**

- 1.** Honesty, Responsibility, Accountability,

Respect for coworkers and adherence to order and discipline, recognition of stakeholder rights and effective communication with them form the basic values of personnel.

**2.** Incidents, Risks and Non-Conformities may occur and in this cases the company is committed to:

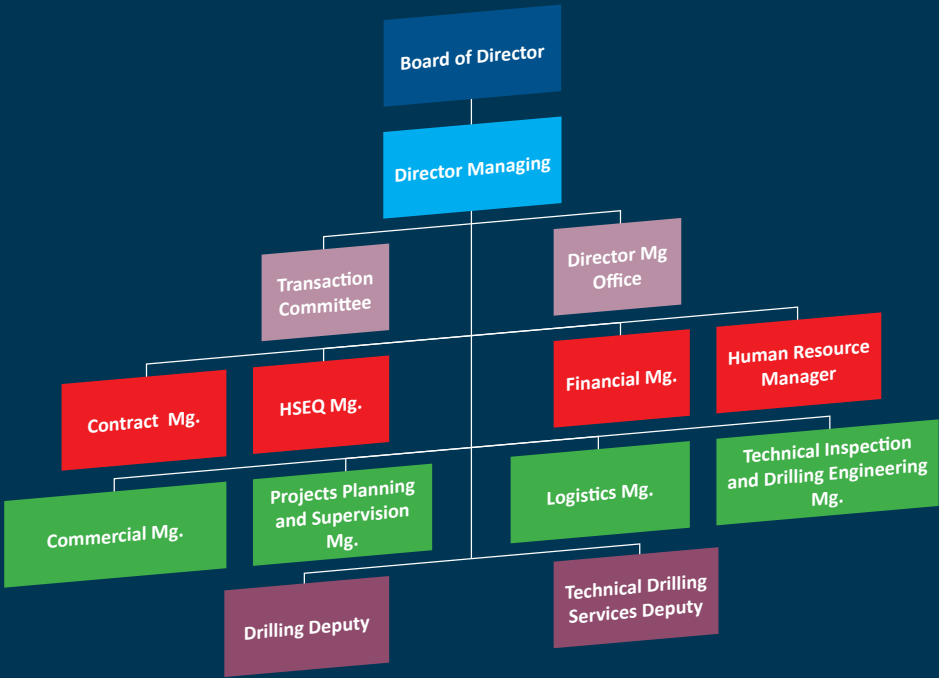
- a.** Report any non-conformities and incidents and follow them up;
  - b.** Investigate the incident reports to prevent the reoccurrence of the past happenings and recurrence of the similar events
  - c.** Prevent and control the incidents by active contribution of the managers and the employees
- 3.** Protecting of the Employees, Environment, Assets, Knowledge, Information and Working System of the company, is the direct responsibility of the entire personnel and the managers.
- 4.** The framework of personnel and management beliefs is formed by respect for personnel rights and valuing their competencies, need for mutual trust, team work, and professional morality and expertise.

The management defined Quality and HSE objectives of the company based on these values and policies and will annually revise and update them. The management has undertaken the responsibility of implementing these policies.

**Fazel Jamalzadeh** Managing Director



# Organization Top Chart





# Our Employees

Human resources are believed to be the most valuable asset of the company. As a basic policy, DCI employees' sharp, motivated, well-educated fresh graduates and mentors them by company experts to develop their skills.



# Rig(Jack-up)



## RIG Specification

DCI Offshore Drilling Units	
General Information	
Rig Name	DCI-1 and DCI-2
Rig Type	Jack Up/ Self Elevating
Design	Friede and Goldman, Super M2
Rig Manufacturer	CIMC Raffles Offshore LTD
IMO No.	DCI-1: 9638082 / DCI-2: 9636204
Call Sign	3EAG6
MMSI No.	352973000
Class Society	NK
Unit Flag	Panama
Date of Construction	2011
Water Depth	300 ft
Wind Speed	100 Knots
Drilling Depth	30000 ft
Accommodation	114 Persons
Hull Dimensions	196’ x 183’ x 25’
Legs	3 x 411 ft Including Spud Cans
Leg Spacing	Transverse: 36.58 m, Longitudinal: 35.05 m
Spud Can Diameters/ Bearing Area	12.9 m / 106.8 Square Meter (Each)



Jacking and Skidding System	
Jacking System type	Friede and Goldman Rack VFD-440 Jack up Rack and Pinion
Normal Jacking Capacity	440 kips/unit
Longitudinal/ Transversal Skidding	Hydraulic System
Cantilever Envelope:	0 ft- 50 ft Aft Transom , 15 ft Center Line Either Side
Variable Load During Operation	4080 MT

Electrical Power Supply	
Main Generator Set	5 Nos. SR4B 1530 eKW Generators and 5 Nos. CAT (3516B HD) Engines
Emergency Generator	1 No, SR4B 550 eKW Generator and 1 No. CAT (3412C) Engine

Drilling Equipment	
Derrick	35ft x 40ft, Height:170ft , Static Load of 1500 klbs
Drawworks	TSC, Model D2330, 2300HP, Driven By AC Motors. 1 5/8" Grooved Drum
Top Drive	CANRIG Model: 1275AC-681, Capacity 750 sh ton. Continues Torque Rating:51400ft.lb@ 120RPM
Rotary Table	TSC, Model 495E, 49 1/2", 1150 HP
Travelling Block	Rated Capacity: 1500klbs, 7 x 60" 1 5/8" Grooved Sheaves.
Crown Block	Rated Capacity:1500klbs, (6+2) x 60" 1 5/8" Grooved Sheaves.

Well Testing Equipment	
Burners	2 Nos. 15000 BOPD / 120 MMSCFD Gas, Design Pressure/ Temp : 1440psi / 250 Deg. F
Burner Booms	2 Nos. 90 Feet Long

Cementing Equipment	
Cement Unit	Model PCS-621B Double Pump Skid, WP:10400 psi ,FR:3.4 m3/min

Pipe Handling Equipment	
Iron Roughneck	2 Nos. TSC Pedestal IR150 and IR120, 2 7/8" to 9 3/8" Pipe Range and 100-120, Kft-lbs Max. M/U and B/O Torque Range. (IR150 Equipped with Slew Hydraulic System)
Catwalk Machin	Friede and Goldman, Capable for Handling 2 3/8" to 36" Tubular Range
Stand Arm	Capable for Handling 3 1/2" to 9 1/2" Tubular Range
HTV	Capable for Handling 3 1/2" to 9 1/2" Tubular Range
Bridge Racker	Capable for Handling 3 1/2" to 9 5/8" Tubular Range

Mud System	
Mud Pumps	3 Nos. TSC Workforce-2000, Triplex (2000HP), Driven by AC Motors, 7500 psi Fluid End W.P
Shale Shakers	5 Nos. TSC/HZS280-3P, Liner Motion
Desander / DeSilter	2 Sets, Integrated Desander (4 Nos. 10" Cones) and Desilter ( 24 Nos. 4") Each
Mud/Gas Separator	250-300 m3/h, Design Pressure: 580 psi
Degasser	HLZCQ-260/ Vacuum Degasser
Mud Centrifuge	1 No, TSC / LW450 x 1000 N1H Medium Speed and 1 No, TSC / LW450 x 1000 N3H High Speed
Mud Tank	8 Nos. 714 Actual /640 Usable (m <sup>3</sup> ) Capacity





# RIG Specification

## Continued

### Bulk System and Storage Capacity

Drilling Water	1208 m <sup>3</sup>
Fresh (Potable) Water	372 m <sup>3</sup>
Fuel Oil	644 m <sup>3</sup>
Dry Bulk Storage	340 m <sup>3</sup>
Cement Silos	2 No, 68 m <sup>3</sup> (Each)
Barite / Bentonite Silos	3 No, 68 m <sup>3</sup> (Each)

### Well Control Equipment

Diverter	DV 49 1/4" - 500, H2S Trim
Annular BOP	21 1/4" -2000 psi 13 5/8" -10000 psi
Ram Type BOP	21 1/4" - 2000 psi (Double) 13 5/8" - 15000 psi (Single) 13 5/8" - 15000 psi (Double)
BOP Control Unit	20 x 15 Gallon Capacity, 3000 psi
Choke and Kill Manifold	3 1/16", 15000 psi

### Cranes

Cranes	2 Nos. Type: GN50/8 , Make: MEP Pellegrini, Italy
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### Axillary Equipment

Water Maker	2 Nos. 25 MT/day (Each), RO Type
Compressors	2 Nos. Main Compressor Atlas Copco, Model:GA355W, WP: 58-145 psi, 516 HP 1No, Bulk Compressor Atlas Copco, Model: GA132A, WP: 90-150 psi 177 HP
Air Drier	2 Nos. Atlas Copco, Rated Capacity: 2700 NCMPH and 1 No, Atlas Copco, Rated Capacity 1620 NCMPH
Mooring System	4 Nos. 3.2 ton Anchors , 4 Nos. Anchor Winches 65.5 HP
Communication and Navigation	Inmarsat, Radios( VHF, UHF), GMDSS, EPIRB, SARTs, AIS, SSAS, Air Band, Gyro Compass, AVTEX, LIRT,DGPS

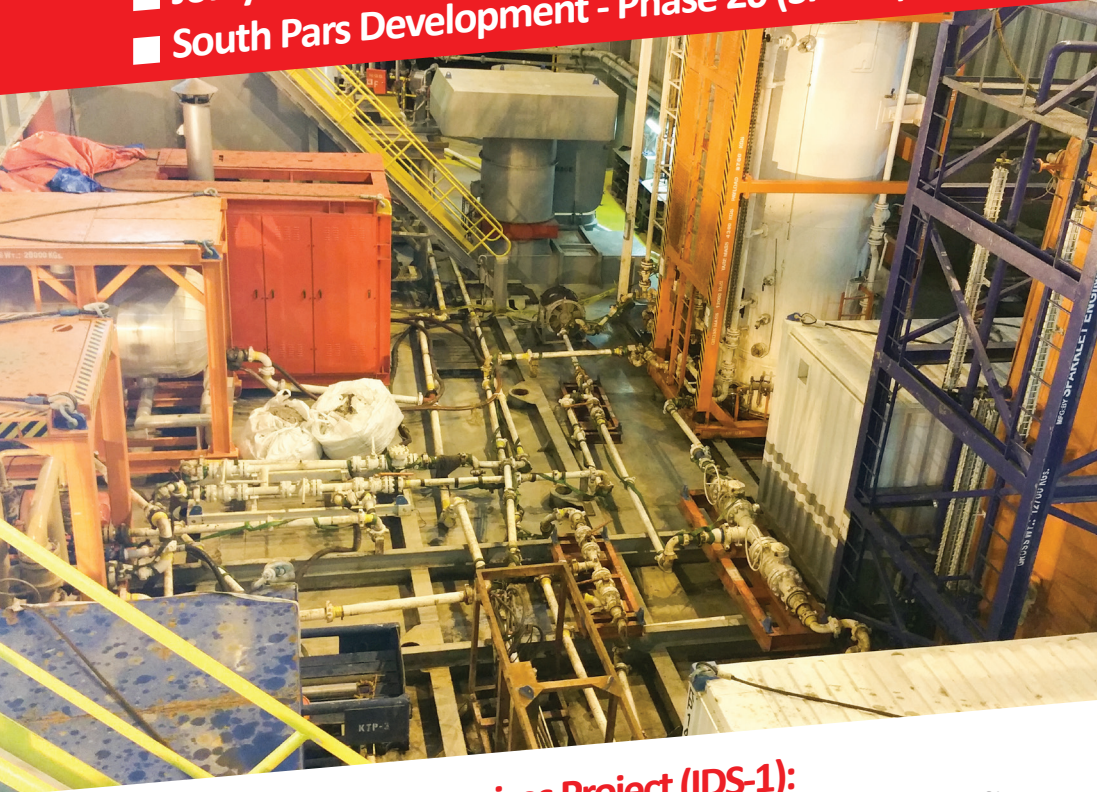
### Safety and Life Saving Equipment

H2S Monitoring System	Installed @ Bell Nipple, Drill Floor, Shale Shakers, Mud Tanks, Mud Pump Room, Ventilation System Into Living Quarters and Others
Fire Pump	2 Nos. Main. 160m3/hr@70 m
Life Boat	2 Nos. Located @ Port/STBD, 120 Person/Craft
Life Rafts	5 Nos. Located @ Port/STBD, 25 Person/Craft
Fast Rescue Craft (FRC)	1 No, Power: 6kNots
Pollution Prevention	EVAC Sewage Treatment, JOWA Oily Water Separator, Garbage Compactor
Fire/Smoke Detectors	130 Nos. Make Autonica

# Our Projects



- Integrated Drilling Services (IDS-1 and IDS-2)
- South Pars Oil Layer (SPOLandSPOL-A2)
- Jofeyr Oil Field Development
- South Pars Development - Phase 20 (SPD20)



## **Integrated Drilling Services Project (IDS-1):**

Through a contract with Iranian Offshore Oil Company (IOOC) DCI provided 14 technical services to 16 offshore drilling rigs from December of 2010 to December of 2013.





### **Integrated Drilling Services Project (IDS-2):**

IDS-1 was followed by IDS-2 for providing drilling services to IOOC offshore drilling units. This contract was awarded to DCI Through a new tender. In the frame work of this new 3 years contract DCI has been providing integrated drilling services to both offshore and onshore facilities of client from January 2014.



# Our Projects



## **South Pars Oil Layer Project (SPOL):**

South Pars Oil Layer (SPOL) field is located in the Persian Gulf, 100 km south west of the Iranian coast, and close to Qatar boundry. It is located in 67 meters water depth.

The scope of work for SPOL Project included:

- Tie-Back all seven wells from seabed to platform.
- Re-Entry and completion of the wells.
- Well testing and stimulation of the wells
- Completion of the wells
- Perform stimulation and production tests of some of the wells

DCI has provided drilling unit, logistics and drilling services for all 7 wells in the Project.

Drillig services provided by DCI included logistics, ROV, Seabed Survey, MLS, Casing/tubingRunning, Liner hanger, Drilling fluid, Cementing, Whipstock, Wellhead, H2S, Fishing, Stimulation and Well testing.

DCI has taken full responsibility for the adequacy, stability and safety of all its operations required for fulfilment of its commitments strictly required by safety management system.

DCI made every endeavor to provide, at Company's request and expense, extra equipment, materials and services, pertaining to the works.

- We achived 240 Days Without Lost Time Injury (LTI) in the Project.





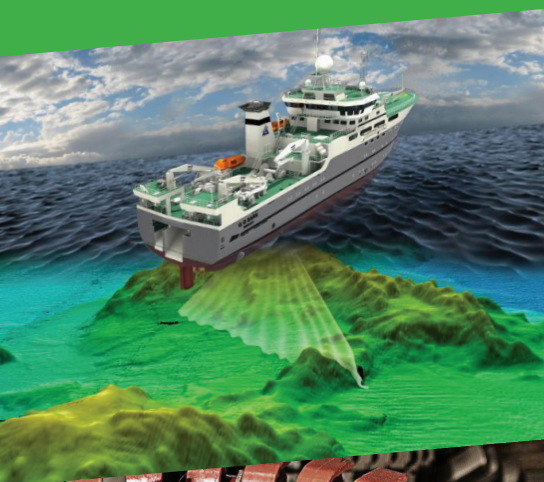
### **South Pars Phase 20 Project (SPD20):**

DCI-1 jack up unit is assigned to perform drilling operations in South Pars phase 20. This project began in May 2013 for 3 years.

DCI has been appreciated by client repeatedly due to its good practice for minimum drilling time with good quality.

In addition, DCI has been appreciated for 365 working days without NPT and more than 1000 working days without LTI in the project.

# Drilling Services



## **IDS Management:**

- Management of providing all drilling services for IOOC since 2010, and all drilling services for SPOL projects are the most important activities of Drilling Service Department of DCI.

## **Logistics:**

- Providing logistics services in Persian Gulf; during the last five years, DCI has provided logistic services for IOOC and DCI offshore rigs by 11 vessels and 2 choppers.

## **Directional Drilling:**

- Providing directional drilling services through on domestic and foreign contractors.
- DCI has been able to increase its capabilities and has successfully performed 338 directional drilling operations in various oil and gas regions in Persian Gulf.

## **Liner Hanger:**

- Providing Liner Hanger Service through domestic and foreign contractors.
- DCI has been able to increase its capabilities and has successfully performed 181 installation operations of Liner Hanger in oil and gas wells in Persian Gulf.

## **Site Survey:**

- Providing Geo physics, Geo technique, and Rig Positioning and ROV services, through domestic and foreign contractors.
- DCI has been able to increase its capabilities and has successfully performed 85 site survey operations in Persian Gulf.



### **Cementing:**

- Providing cementing services in Iran oil and gas wells, through foreign contractors.
- DCI has successfully supplied required equipment, cement and additives for performing more than 172 cementing operations in various operational regions in Persian Gulf. Currently, DCI has two cementing unites installed on its offshore rigs.

### **Drilling Fluids:**

- Providing drilling fluid material, engineering service, and waste management service.
- Through two three-year successive agreements, DCI has undertaken responsibility for providing drilling fluid services on half of IOOC drilling rigs and South-Pars oil layer projects.

### **Fishing and Drilling Tools:**

- Providing fishing services and rental drilling tools from valid domestic and foreign manufacturers and suppliers. DCI also provides rental tools from its yard located in Kish Island.
- DCI has successfully supplied 74 requests for fishing and drilling equipment for IOOC drilling rigs.

### **H2S:**

- Providing H2S through domestic and foreign contractors.
- DCI through, has successfully supplied H2S equipment required for 17 oil and gas wells in Persian Gulf. Currently, this service is being operated in DCI





### **Casing and Tubing Running:**

Providing Casing and Tubing Services for all oil and gas well sizes through domestic and foreign contractors.

DCI has successfully completed 287 casing and tubing running operations in various fields of Persian Gulf.

### **Stimulation:**

Providing stimulation services for oil and gas wells through domestic and foreign contractors. DCI has successfully completed more than 70 stimulation operations in various fields of Persian Gulf.

### **Well-Head:**

Providing well-head services through domestic and foreign contractors. DCI has successfully completed more than 32 orders for provision of well-head equipment services, so far.







**Whip stock:**

Providing permanent and retrievable whip stock services through domestic and foreign suppliers. DCI has successfully completed 85 window opening operations in IOOC wells.

**Coiled Tubing:**

Providing coiled tubing services through and foreign contractors. DCI successfully provided 12 coiled tubing services in Persian Gulf.

**Well Testing:**

Providing well testing services through domestic and foreign contractors. DCI Company has successfully completed well testing operation in South-Pars oil layer wells.



# Logistics

DCI logistics and support department handles all crew, material, provisions transport on land, sea and air.

Logistics and support management department has promptly responded the drilling rig requests through updating operational methods, accurate planning, monitoring performance indexes and minimizing all delays and lost times.

■ **Logistic Planning Management:** Includes planning for movement of vessels, coordination and supervision of entry and departure of vessels, management of transportation of the employee to drilling rigs through fast-speed boat and chopper.

■ **Marine Logistic Services:** Includes provision of support vessels, facilities, personnel barge and crane barge for rigs. Measuring and controlling fuel and water of vessels and transportation of offshore rigs to operation regions.

■ **Provision of goods and other support services:** Includes supervision for loading and unloading goods, supervision over existing goods in storehouses, controlling inventory and encoding them, supervision over customs proceedings and operation.



# Storage Facilities



- Kish yard(3,430 m<sup>2</sup>)
- Warehouse(3,430 m<sup>2</sup> - Kish Island)
- Warehouse(50 m<sup>2</sup> - Tehran)
- Warehouse(150 m<sup>2</sup> - Sharjah,U.A.E)



# Training



DCI training department has executed numerous training courses about offshore drilling to enhance the required staff skill and knowledge.

DCI training department has taken important steps in direction of reinforcing the ability of the staff to be assigned for higher responsibilities and also creating a pleasant circumstance for its people with the aim of following actions have been taken by training department:

1. Providing regular training courses for the new employed staff.
2. Signing contract with authorized training institutes.
3. Conducting valid international crew certification by qualified training centers.
4. Arranging training courses for the staff in drilling operation, engineering, and HSE.







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