



شركة أبو دقن (ADC)

لحفر وصيانة وتصوير الآبار وأعمال المياه
ABU DEGEN DRILLING WELLS CO. LTD.

Since 1976

www.abudegendrilling.com



TEL.: 280340 - FAX: 2429181
P.O Box: 5350 CODE 11422
info@abudegendrilling.com



COMPANY HISTORY

Abu Degen Company for Drilling Wells Ltd. (ADC) is a leading Saudi Company of, Drilling, Water Well Drilling, and services including Geophysical Borehole Logging, Coring, Cementing, Camera Inspection, Manufacturing tools and equipment (Liner Hanger, Cementing accessories, and slotting Steel Casing) in the Kingdom of Saudi Arabia. It was established by (Late) Mr. HASSAN AHMED ABU DEGEN in the year of 1976.

Activities & Services

DRILLING WATER WELLS

Special features of the water wells drilling activities including:

- Drilling of water wells using different techniques (Straight rotary, Down-hole hammer and Cable tool), according to the geological-hydrogeological conditions and the well design.
- Drilling depth capabilities up to 1700m.
- Rigs are equipped with all necessary modern equipment.
- State of the art drilling.
- Precise data collection during the drilling, geophysical logging, geohydraulic testing, CCTV Camera Inspection, and casing cementation.

SERVICES

- Well Geohydraulic Testing.
- Coring (1500m).
- Cementing (3000m).
- Geophysical Borehole Logging (2000m).
- CCTV Camera Inspection (1000m)
- Manufacturing: Liner Hangers with different sizes, subs, cementing equipment and casing slotting.
- freeing of borehole stuck using advanced techniques mechanically and chemically.



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STRATEGY

VISION

our vision is to be the best company. We expect and demand the best we have to keep ADC values top of mind.

MISSION

Conduct our business honestly with integrity and commitment to our employees, clients, community and the environment by setting the standard for industry best practice.

VALUES

Our values represent ADC Drilling culture and expectations to be demonstrated at all staffing levels:

- High standards of work
- Teamwork
- Safety
- Professionalism
- Environment



GARDNER DENVER 3000 PORTABLE DRILLING RIG

Specifications:

No. of lines: 6 LINES.

Power Unit: TWIN ENGINE.

Maximum Drilling Depth: 1700 M WITH 3 ½ D/P.

Mud Pump: FX-FXD (7 ½" X 10").

SPEED STAR – 40 RIG

Specifications:

No. of lines: 6 LINES.

Power Unit: TWIN ENGINE..

Maximum Drilling Depth: 1200 M WITH 3 ½ D/P.

Mud Pump: FX-FXD (7 ½" X 10").





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GARDNER DENVER 2000 PORTABLE DRILLING RIGS

Specifications:

No. of lines: 6 LINES.

Rotary Table: 10" IT CAN BE HINGED UP TO 22" OPENING.

Maximum Drilling Depth: 700 M WITH 3 ½ D/P.

Mud Pump: FX-FXD (7 ½" X 10").



FAILING 2000 RIG

Specifications:

No. of lines: 4 LINES.

Power Unit: TWIN ENGINE.

Maximum Drilling Depth: 1200 M WITH 3 ½ D/P.

Mud Pump: FD-FXX (5 ½" x 8").



T4 DRILLING RIG

Specifications:

IR HR2.5 1250 CFM / 350 PSI AIR COMPRESSOR

Power Unit:

CUMMINS QSK 19 C DIESEL DECK ENGINE AT 755 HP

Maximum Drilling Depth: 500 M WITH 3 ½" D/P.

Mud Pump:

25 GPM CAT 2520 BEAN WATER INJECTION PUMP



PERCUSSION DRILLING RIG

Specifications:

NO. OF LINES: 3 LINES MACHINE

Power Unit:

1 ENGINE (DIESEL DECK ENGINE)

Maximum Drilling Depth:

400 M WITH 3 ½" D/P.

Mud Pump: FY-FXD (7 ½" X 10").

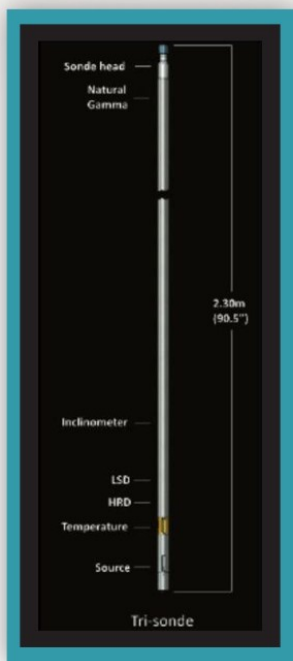


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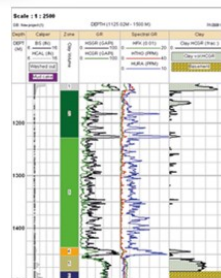
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ADC LOGGING UNIT



MINISTRY OF WATER AND ELECTRICITY			
MAADEN PHOSPHATE CO. FLUOR			
			
PROJECT NAME	FLUOR	PROJECT NO.	001/001
CLIENT	MAADEN PHOSPHATE CO.	DATE	01/01/2010
DRILLER	ABU DEGEN DRILLING WELLS CO. LTD.	DRILL NO.	001/001
LOGGING UNIT	ADC LOGGING UNIT	LOG NO.	001/001
LOGGING DATE	01/01/2010	LOGGING TIME	00:00
LOGGING LOCATION	FLUOR	LOGGING DEPTH	000
LOGGING TYPE	FLUOR	LOGGING METHOD	FLUOR
LOGGING RESULT	FLUOR	LOGGING STATUS	FLUOR



600 M WHINCH
2500 M WHINCH
3000 M WHINCH



CAMERA UNIT

The CCTV truck equipped with 1000m winch (1/4 inch- Single Core Cable). Service Truck (Mitsubishi) with 2 tons winch.

The CCTV camera run in the hole first. The purpose is to inspect the condition of the well and verifying its suitability for performing the logging operations.



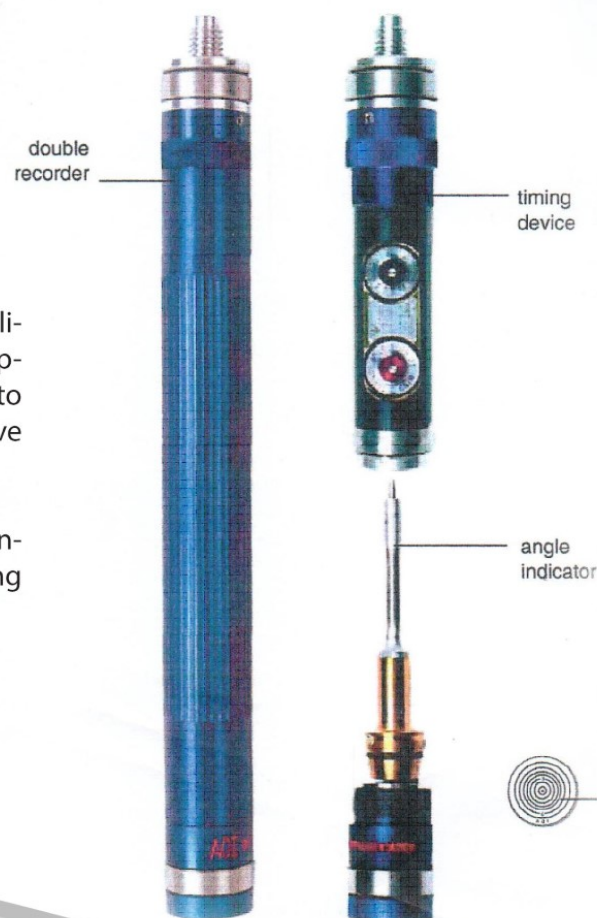
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TOTCO

To improve the drilling efficiency, to produce the best quality data, highly efficient well and to execute all the drilling operations smoothly ADC conduct Deviation survey in order to check the Well Verticality with highly modern and sensitive Double Recorder Drift Indicator TOTCO system.

The TOTCO drift indicator System provides accurate drift information at frequent intervals, enabling increased drilling efficiency by maintaining a controlled vertical wellbore.



DRIFT INDICATOR SYSTEM COMPONENTS

Each Drift Indicator System Consists of the following main components:

Double Recorder – Measures and Records hole indicator.

The recorder consists of two main parts enclosed in a stainless steel

Angle Indicator – Perforates a circular Chart to indicate theangle

Timing Device – Determines the time at which the reading made.

Note: the timing device and angle indicator are a matched set.

Do not interchange them with timing devices or angle indicator from other Drift Indicator System

CORING TOOLS

APPLICATION

CHUAN -4 conventional coring tool is the perfect tools for conventional coring operations during drilling and geologic operation. This kind of tools, characterized by perfect supplementary tool, complete in specifications and advanced techniques, are suitable for coring in soft, medium, hard and broken formation.



MODEL SPEC. PART	CHUAN7-4
Outer Barrel (mm) ODxIDxthickness	172x136x18
Steel Inner Barrel (mm) ODxIDxthickness	121x108x6.5
Core Dia. (mm)	101
Bit OD (mm)	7 1/2" - 9 5/8"
Top Connection	4 1/2" API IF



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CEMENTING UNIT



CEMENTING UNIT TRAILER MOUNTED



PERFORMANCE DATA:

MAX. WORKING PRESSURE: 43.4 MPA (6295 PSI)

MAX. WORKING DISPLACEMENT: 2.1 M3/MIN (13BPM) (4.5" PLUNGER)

SLURRY DENSITY: 10.0-2.4 G/CM3

MIXING CAPACITY: 0-2.3 M3/MIN

TOTAL WEIGHT: 21000KG

OVERALL DIMENSION (LXWXH): 12200X2500X4050MM (APPENDIX)

RELATIVE HUMIDITY: ≤90%



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COMPRESSORS

ATLAS COPCO

Model : XRVS 476 CD

Maximum Pressure: 25 bar

Discharge Volume: 974 CFM

WELL DEVELOPMENT

To produce high efficiency well, at the end of each Well ADC employ compressor and booster (70) bar in order to complete the air lifting of the well.

The airlifting is performed to remove the impurities and fine particles from the well by using HexaMetaphosphate along with Sterilization by using Calcium Hypochlorite so we can handover highly developed well to our customers. Special Jetting and surging tools are used to complete the development.



BOOSTER

ATLAS COPCO

Model : C54 – 0644

Discharge Pressure : 70 bar

Discharge Volume: 1200CFM



ADC BOOSTER 900/1550

CRANES

The TADANO TR-500 rough terrain crane has a maximum lift capacity of 45 tons and a four-section full-power synchronized telescoping boom with a maximum length of 85 feet. Tadano's RT's feature rugged frames and a hydraulic suspension system designed to handle the tough conditions found on job sites.

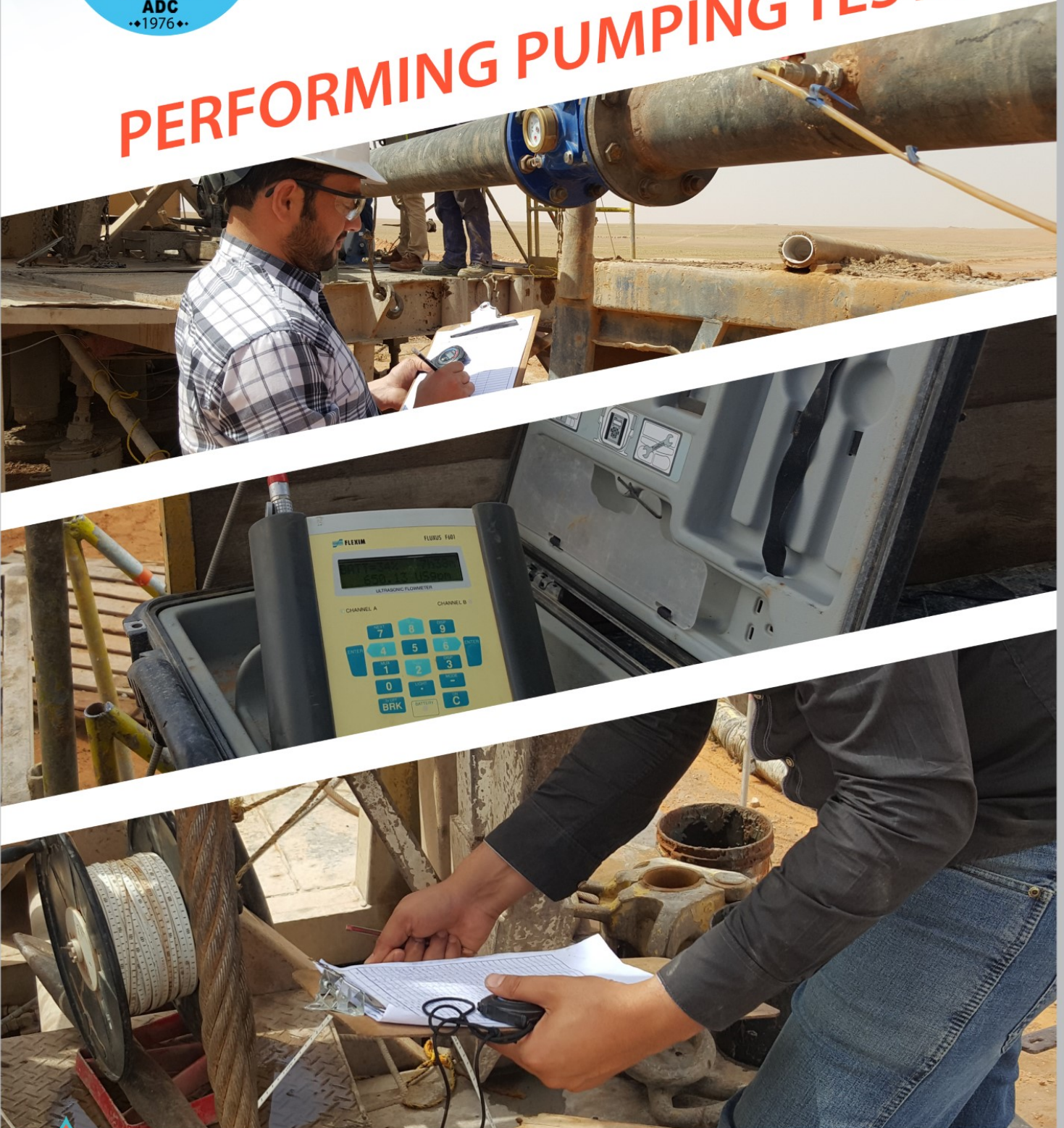




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PERFORMING PUMPING TESTS





ADC is capable and very adequately equipped with the machinery supported by highly experienced and well trained personnel to perform pumping tests using submersible pumps or turbine pumps discharge rates of 50 USGPM

(0.18 m³/m) up to 1000 USGPM (3.78 m³/m) depends upon the expectations or demand of the customer.

We use high sensitive Electric Tapes, meter dippers and divers for measuring the Water level during pumping test and Electromagnetic Flowmeter, Flow Totalizer and V-notch Weir in order to correlate and get the best Possible readings of discharge and Dynamic Water Level. We use WTW-Multi 3420 Set 6 to measure field parameters such as Temperature, PH, and Electrical Conductivity during the execution of the test.

PERFORMING PUMPING TEST





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SCOPE OF ADC WORKSHOP:

ADC workshop is equipped with highly efficient and modern technology machinery, which produce the best quality drilling equipment in KSA.

The drilling equipment produced by ADC are approved by Ministry of Water and Electricity. The workshop is supervised and run by highly experienced and professional Engineers in order to satisfy and fulfil the expectations of the customers. ADC workshop is one of the competent workshop in KSA in the field of producing drilling equipment and tools and the ADC produced tools are widely used in the wells of Ma'aden, CDM, GIZ and MoEWA.

The personnel in ADC workshop are highly devoted and apply their full effort in order to meet the demand and satisfaction of our customers. ADC workshop crew always give an extraordinary care to the specifications provided by the customers and as wells as API specifications during the manufacturing of drilling tools.

The prominent drilling equipment manufactured and assembled in ADC workshop are as follow:

- Shale Shaker
- Desander
- Float Shoe
- Float Collar
- Wash Down Valve
- Liner Hanger
- Hanger Swivel

SOLID CONTROL SYSTEMS:

In line with ADC vision and Philosophy a solid control system proudly manufactured by ADC is in service. Solid control system is used to separate the solids in the drilling fluids that are crushed by the drill bits and carried out to the well surface.



ADC SHALE SHAKERS

Shale shakers are considered by most of the drilling industry to be the most important device in the solid control system as the performance of the successive equipment directly relates to the cleanliness of the treated drilling fluid.



DESANDER

DESANDER is one of the most important part in solid control and sand removal system. ADC DESANDERS are API compliant and manufactured by ADC provides efficient and reliable separation of sand and act as an important part for drilling fluids cleaning process.



FLOAT SHOE

ADC manufacture the Float Shoes which are API compliant and also approved by MoEWA KSA.

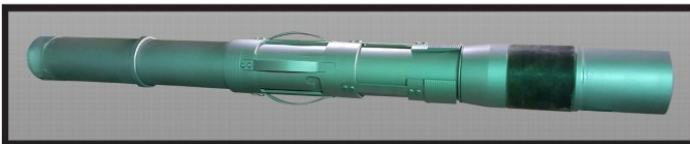
SIZES: 7", 9 5/8", 13 3/8", 18 5/8", 20", 24", 28"



BAFFLE COLLAR

ADC also manufacture the Baffle Collar which are API compliant and approved by MoEWA KSA. The Baffle collar have the check-valve assembly that prevents flow back of the cement slurry.

SIZES: 7", 9 5/8", 13 3/8", 18 5/8", 20", 24", 28".



HANGER

ADC is proud to produce and assemble the liner hanger with packer that can be used in a variety of environment to attach or hang liners from the internal wall of a previous casing string. Hangers are available in a range of sizes to suit a variety of completion conditions.

For Example: (9 5/8" – 7"), (13 3/8" - 9 5/8"), (16" – 9 5/8").



WASH DOWN VALVE,

ADC proudly manufacture API complaint wash down valve, which allows the well to be effectively rinsed out and ensures that the filter pack is effectively placed.



HANGER SWIVEL

ADC proudly manufacture Hanger swivel in its workshop that are API compliant and approved my MoEWA. Hanger Swivel is used to support the liner hanger and also it help to set the casing at appropriate position.

SIZE: 7", 9 5/8".



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SOME EXECUTED PROJECTS

ADC has completed Fifteen (15) drilling exploration Wells and (2) Observation Well for Saudi Arabian Mining Company [MA'ADEN]: (PMC FLUOR).

Phase I, Drilling of (6) Wells (6,000) meters.

(2014-2015) Drilling, Logging, Construction and Testing of Six (6) wells for Umm Wu'al Phosphate Project – Well Field & Related Works.

Phase II, Drilling of (11) Wells (10,000) meters.

Drilling, Logging, Construction and Testing of (11) wells for Ma'aden Umm Wu'al Phosphate Project – Well field & Related Works at Umm Wu'al -2015 – Ma'aden Company. Drilling wells of (10,000) meters

Supply and install (15) Submersible Pumps (REDA PUMPS) PVSDS – Schlumberger.

ADC accomplished three (3) drilling exploration projects for GIZ / DCo namely:

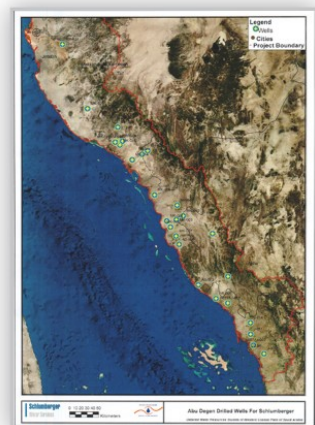
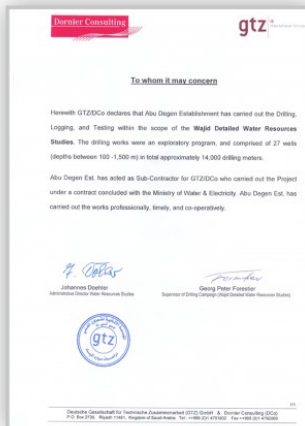
- (2009) Drilling, Logging, Construction and Testing of (27) wells in Wajid Water Resources Studies (Total meterage drilled 16,000m, depth range from 600m – 1500m). Eight shallow wells (depth range from 50m to 150m; Quaternary deposits) were drilled by cable tool method with UPVC casing and screen.
- (2011) Drilling, Logging, Construction and Testing of (8) wells for Wasia Water Resources Studies (Total meterage drilled 12,000m, depth range from 900m – 1300m).
- (2012) Drilling, Logging, Construction and Testing of (20) wells for Jilh-Minjur-Dhruma Water Resources Studies (Total meterage 12,000m, depth range from 50m – 1300m). This project is on going since February 2012. Eight shallow wells shall be drilled (depth range from 50m to 150m; in the Pleistocene and the Limestone of Arab Formation) by percussion method. ADC sub-contracted with a cable tool rig to complete the wells. Five shallow wells (50 m) depth were completed using 10 inch UPVC pipe casing and screen.

Drilling Exploration Wells for CDM Arabia Ltd. BRGM:

(2014-2015): Drilling, Logging, Construction and Testing of 23,000.00 Liner meters wells with in Detailed Water Resources Studies in Al-Harrat and in the Main Valley of the Arabian Shield Located East of Al-Hijaz Mountains.



EXPIRIANCE CERTIFICATS





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BUSINESS ADMINISTRATIVE & CONTACT INFORMATION

Business Name:

ABU DEGEN COMPANY FOR DRILLING WELLS Ltd.

Business Type :

The main activities are drilling, construction, cementing, well logging and geohydraulic testing of all types of water wells up to 3000m, and full scale interpretation of drilling, geological, pumping test and well logging data.

Year Founded: 1979

Company Registration Number: 1010049759

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