



# ABD ELMAHMOUD ELGAILI

## Senior Geophysicist/Geologist

A Professional Geophysicist/Geologist with more than 12 years of experience in various geophysical Methods and their applications in the field of geotechnical engineering, environmental applications, Oil Exploration, water and minerals exploration. Has strong technical management, organizational, managerial And computer skills with extensive experience in writing technical reports. Well experienced, successful And competent individual with proven track record in preparing quotations, survey designing, data Acquisition, processing and interpretation of near surface geophysical methods. My experience covers wide Range of geophysical methods including resistivity, seismic, radar, magnetic, electromagnetic and borehole Geophysical methods.

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📍 KHOBAR, SAUDI ARABIA

in  
linkedin.com/in/https://www.linkedin.com/feed

### SKILLS

Oil & Gas Exploration (Seismic Interpreter)

Electrical Resistivity Methods

Seismic Refraction Tomography

Seismic Crosshole & Downhole test

Ground Penetrating Radar (GPR)

Multi-channels analysis of surface waves (MASW)

Gravity Method

Borehole loggings

Software Skills :-

Seismodule Controller (Acquisition Software): To collect data of seismic by using Geode-Seismograph

SurfSeis Ver. 2&3: to process data of Seismic Surface Wave (MASW) and spectral Analysis of Surface Wave(SASW)

### WORK EXPERIENCE

#### Head Of Geophysical Operation Unit

##### Arab Company for Laboratories and Soil (ACES)

01/2020 - Present

Khobar - Saudi Arabia

Arab Center for Engineering Studies (ACES) provides specialized engineering services in geotechnical engineering, material testing, environmental engineering, and land and marine surveying. ACES was established in Jordan in 1983 and has grown to more than 2,000 employees with a network of fifteen offices across Middle East and Africa.

#### Achievements/Tasks

- Supervisor for all geophysical field testing (Seismic Surface Wave (MASW), Seismic Refraction, Down-hole Seismic, Cross-hole Seismic, P&S Suspension, Full Wave Form Sonic, Parallel Seismic, Electrical Resistivity Tomography (ERT), Vertical Electrical Sounding (VES), Soil Resistivity Test, Thermal Resistivity Test, Ground Penetration Radar (GPR), High Resolution Acoustic Televiwer, Borehole Logging.
- Processing, Analysis, Interpretations and Report preparation.
- Decide on optimum geophysical method to be used which will be suitable for the site conditions.
- Interpret and report on collected data to the team, clients senior manager or partners at meeting and presentation

#### Sr. Geophysicist

##### Arab Company for Laboratories and Soil (ACES)

12/2013 - 12/2019

Khobar- Saudi Arabia

Arab Center for Engineering Studies (ACES) provides specialized engineering services in geotechnical engineering, material testing, environmental engineering, and land and marine surveying. ACES was established in Jordan in 1983 and has grown to more than 2,000 employees with a network of fifteen offices across Middle East and Africa.

#### Achievements/Tasks

- TECHNICAL SKILLS :-
- Multichannel Analysis of Surface Waves (MASW) & Seismic Refraction Testing (SRT)
- Electrical Resistivity Tomography (ERT) & Vertical Electrical Sounding (VES)
- Direct crosshole and downhole seismic methods (CHT and DHT)
- Crosshole seismic tomography (CHST) & Downhole seismic tomography (DHST)
- Ground Penetrating Radar (GPR)
- Tomographic inversion of surface waves (TomoSW)
- Microgravity (MG)
- Processing, Analysis, Interpretations and Report preparation.
- Use computer data management, quality control and communication.

Contact: Dr. Hamdan - - <http://www.aces-int.com/>

## SKILLS

SeisImager (Pickwin): to process data of seismic refraction test by picking the first arrival of the waves

SeisImager (Plotrefa): to Analysis the data of seismic refraction and presentation the final result of refraction and MASW

Reflexw: To process the data of Down-hole Seismic Test, Cross-hole seismic Test, Cross-hole Seismic Tomography Test and Seismic Reflection Test

WinLogger: Data acquisition and presentation software for Down-hole Logging Tests (3-arm Caliper, E-log, Temperature Conductivity, Density- Gamma Gamma, Flow meter, Verticality and Full wave sonic Test )

AGISSAdmin: Using to create electrical resistivity protocols for SuperSting instrument

EarthImager 2D: To process and analysis data of Electrical Resistivity Tomography (ERT)

Auto CAD software

Arc GIS software

Corel Draw

Surfer & Voxler software

Mat lap (Mat GPR) software

RADAN Version (7) for Underground Utility Mapping

Geofram Software using for Seismic interpretation

Geosoft Oasis Montaj

IPI2Win

GeoTomCG

## WORK EXPERIENCE

### Geophysicist (Seismic Interpreter)

#### Sudan / Petrodar Operating Company

03/2009 - 12/2012

Khartoum - Sudan

PETRODAR Operating Company 'PDOC' is an operating company working in the industry of exploration, development, production and transportation of crude oil.

##### Achievements/Tasks

- Interpretation of different formations from the shallow level to deep level with grid spacing 4 \* 4 using geoframe package.
- Successfully Interpreted and generated TWT Structural Map and Depth Structural Map.
- Using IESX, CPS3 Software for gridding and mapping.
- SDI menu to draw the header and design.
- Define new prospect on different formation tops.
- Generate attributes maps: by using RMS, ARC to get the Lithology differentiation using seismic data. Prospect Calculation: Calculate the Speculative Resources (SR), Speculative Recoverable Resources (SRR), Stock Tank Original Oil In Place (STOOIP) & Potential Recovery (PR) for drilled wells.
- Working as a well site geologist at rigs with full duties and responsibilities and following up the Daily operations.
- Analyze, evaluate and describe formations while drilling through cuttings, Conventional & Sidewall cores, gases and wireline data.
- Identify lithostratigraphic formation tops, casing setting points, coring points, and oil/gas shows intervals and perform well correlation with offset wells.

Contact: Eng. Adil Ali - Exploration Department Manager - <http://www.petrodar.com/> - <https://www.linkedin.com/in/adil-ali-92b282b1/>

### Geologist (Sample catcher and Descriptor )

#### Sudan / China National Logging Corporation

01/2008 - 09/2008

Khartoum - Sudan

China National Logging Corporation (CNLC) is a specialized service company mainly engaged in: Wireline logging, mud logging, well testing, well completion, perforating and other relevant engineering services. Manufacturing wire-line logging, mud logging, well testing and perforating equipment. Geophysical and Geological research & development. Information consultation, and acting as an agent for petroleum exploration and development project.

##### Achievements/Tasks

- Detection of Hydrocarbon Shows and Evaluation of Fluoresce.
- Interpretation of E.log curves & sample description.
- Updating Master Log, preparing DGR (daily geological report) and final well report.
- Lag time calculation and sample catching at the well location.
- System Calibration including WOB, ROP, RPM, SPM, Bit Depth, Block Height etc.

Contact: <http://www.cnlc.cn/cnlcWeb/Index.htm>

## PERSONAL PROJECTS

Finding Potential Hydrocarbon Traps near Top Yabus main Sand Formation in Agordeed, Adar and Gumry (Nahal) 3D Area, Middle-East part of the Melut Basin, Block 7/3, and South of Sudan by Using Seismic Re-interpretation Technique. (01/2012 - Present)

- Seismic prospecting is the most widespread geophysical method in petroleum exploration. The main objectives of this study are to find the possible hydrocarbon traps by generate depth structural map near Top Yabus Sand Formation using seismic re-interpreted technique, in Agordeed, Adar and Gumry (Nahal) 3D Area.
- Results of the seismic interpretation and subsurface mapping are used in this research to generate reasonable models and predictions about the properties and structures of the subsurface. By using base map, seismic sections, available wells, velocity data, formation top and well logging in the investigation area generated TWT structural map, depth structural map and RMS attribute structural map showing new prospect area especially in Gumry (Nahal) 3D area.

## ORGANIZATIONS/ASSOCIATIONS

Sudanese Water Association (01/2007 - 01/2008)

Sudanese Association of Petroleum Geoscientists (SAPEG) (03/2009 - 12/2012)

## ACHIEVEMENTS

Metro Project - Saudi Arabia - Riyadh (03/2014 - 03/2015)

## LANGUAGES

### ARABIC LANGUAGES



### ENGLISH LANGUAGES



## INTERESTS

Seeking a challenging position in the field of Oil & Gas, Geophysics, hydrogeology, Structural Geology, Remote Sensing and GIS Modeling.

Engineering Geophysics: Geophysical methods provide accurate data about the structure of the subsurface - valuable information in the field of engineering.

Recreation interests:  
Playing football

## ACHIEVEMENTS

### Many projects with Saudi Aramco (12/2013 - Present)

Many Geophysical Projects with Saudi Aramco Containing Ground Penetrating Radar (GPR), Electrical Resistivity survey, Seismic Refraction Survey, Seismic cross-hole and Seismic Down-hole.

## EDUCATION

### B.Sc. (Honor Degree) Geosciences - School of Applied Earth Sciences (Hydrogeology) – Second Class (Division One), in 3 September 2006.

Al Neelain University / Sudan

09/2001 - 09/2006

Khartoum - Sudan

### M.Sc. by courses in Geophysics (completed the courses, the research is under Process)

Al Neelain University/ Sudan

01/2012 - Present

Khartoum - Sudan

#### Courses

- Geoelectric Surveying Theory
- Gravity
- Geo-informatics
- Magnetic
- Exploration Seismology
- Structural Geology
- Electromagnetic Methods
- Well Logging

### ON JOB TRAINING SEQUENCE STRATIGRAPHY GALHAK FORMATION PALOGE FIELD

CNLC/ CHINA

06/2011 - 07/2011

Beijing - China

#### Courses

- SEQUENCE STRATIGRAPHY

### SEISMIC INVERSION DETERMINISTIC (POST & PRE-STACK)

PETROLUM TRAINING CENTER / SUDAN

11/2011 - 11/2011

Khartoum- Sudan

#### Courses

- SEISMIC INVERSION

### INTRODUCTION APPLIED STRUCTURAL GEOLOGY

DHARMATTAN - SUDAN

01/2010 - 02/2010

Khartoum - Sudan

#### Courses

- STRUCTURE GEOLOGY

### SEISMIC PROCESSING TRAINING

SUDAPET (BPC) / SUDAN

08/2009 - 08/2009

Khartoum - Sudan

#### Courses

- SEISMIC PROCESSING

### SAUDI ARAMCO WORK PERMIT PROGRAM (RECEIVER)-WPR

Aramco / Saudi Arabia

10/2017 - 10/2019

Khobar - Saudi Arabia

#### Responsibility

- Request for Permit from the Saudi Aramco employee (Issuer).
- Responsible with issuer to safe people and equipment in the investigated area.
- Joint site inspection with permit issuer before approved and signed the permit.



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الخبرة الفنية 13 سنة في مجال التطبيقات الجيولوجية ، والهيدروجيولوجية ، و جيولوجيا البترول وبالأخص الدراسات الجيوفيزيائية التي تعتمد علي دراسة باطن الارض لتقادي حدوث مشاكل جيوتقنية وايضا في دراسة الابار الجوفية وتحديد اماكن تجمعات المياه الجوفية وذلك باستخدام برامج حاسوبية يتم من خلالها استنتاج وتفسير المعلومات الحقلية.

### المهارات المهنية

الطرق المستخدمة في الدراسات الجيوفيزيائية



الإنجليزية

العربية

### الخبرات المهنية



حاليًا

#### جيوفيزيائي / جيولوجي

في الشركة العربية للمختبرات والترربة (ACES)

السعودية

جيوفيزيائي/جيولوجي في الشركة العربية للمختبرات والترربة قسم الجيوفيزياء، وقد كانت المهام هي دراسة المشاكل الهندسية الجيوتقنية والبيئية مثل التكهفات وضعف التربة ومعرفة خواصها ليتم حلها وذلك باستخدام الطرق الجيوفيزيائية مثل الطريقة السيزمية السطحية وفي الابار، الكهربية ، الرادار وسبر الابار باستخدام برامج حاسوبية مخصصه لذلك، وايضا كتابة التقارير الفنية المختلفة في الفترة بين 2013 وحتى الان.

#### جيوفيزيائي / جيولوجي

في شركة بترودار لعمليات البترول (PDOC)

السودان

جيوفيزيائي/جيولوجي في شركة بترودار لعمليات البترول قسم الاستكشاف، وقد كانت المهام هي عمل دراسات جيولوجية وجيوفيزيائية باستخدام طرق مختلفة منها الطريقة الزلزالية وسبر الابار وذلك لتحديد مواقع جديدة للابار البترولية في الفترة بين 2009 الي 2012.

#### جيولوجي

في الشركة الصينية الوطنية لسبر الابار (CNLC)

السودان

جيولوجي موقع في الشركة الصينية الوطنية لسبر ابار البترول، وقد كانت المهام هي جمع العينات اثناء حفر الابار ووصفها جيولوجيا وتحديد اعماق المياه الجوفية وايضا تحديد اعماق البترول وذلك باستخدام برامج حاسوبية مخصصة لذلك وكانت من الفترة بين 2008 الي 2009 .

### التعليم



2001 – 2006

#### هيدروجيولوجي

في جامعة النيلين للعلوم والتكنولوجيا

السودان

بكالوريوس الشرف من جامعة النيلين كلية العلوم - مدرسة علوم الارض التطبيقية قسم جيولوجيا المياه من 2001 الي 2006 بتقدير جيد جدا (المرتبة الثانية الدرجة الاولى)

2011

#### الجيوفيزياء

في جامعة النيلين للعلوم والتكنولوجيا

السودان

ماجستير الجيوفيزياء بالكورسات من جامعة النيلين كلية العلوم قسم الجيوفيزياء (قد اكملت الكورسات ولكن البحث الاخير تحت الدراسة والمراجعة)

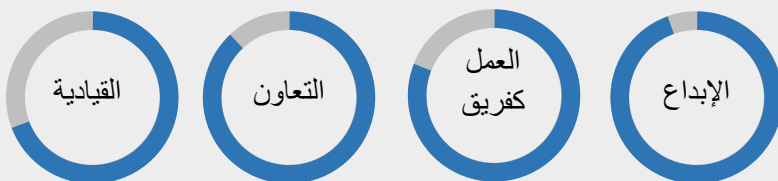
### الكورسات الفنية



كورسات عملية في دراسة التتابع الطبقي لبعض المكامن الحاملة للبترول في السودان وقد كان تابع لشركة بترودار لعمليات البترول في عام 2011

الصين

### المهارات الشخصية



### المراجع



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الإنجليزية

العربية