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GEOGREATOTECHNICS & GEODREELS LTD

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GGL

COMPANY PROFILE

1/19/2023

Table of Contents

1.0 INTRODUCTION	3
2.0 VISION	3
3.0 MISSION	3
4.0 OUR CLASSIFIED SERVICES	3
4.1 Services in Detail	3
5.0 PROJECTS.....	4
6.0 SOME SELECTED SITE PICTURES	11
7.0 SAMPLES OF GEOPHYSICAL DELIVERABLES.....	32
8.0 COMPANY ORGANOGRAM	34
9.0 PROFILES OF KEY PERSONNEL.....	35
10.0 QUALITY PROCEDURE	37
11.0 HSE POLICY STATEMENT.....	37
12.0 SOME SAMPLEDRELEVANT AWARD LETTER/JOB COMPLETION CERTIFICATE.....	38

1.0 INTRODUCTION

GEOGREATOTECHNICS & GEODREELS LTD is a growing indigenous company incorporated in 2008 but the key staff has successfully executed projects under the initial business name: GEODREELS ENGINEERING SERVICES. We have been providing services to the Oil and Gas Industries, Construction, Power, Environmental, Government, Telecommunication and Engineering companies. We have completed a lot of direct or sub-contract jobs for SAIDEL-DESICON, DAEWOO, SPDC, SAIPEM, AGIP, ELF, TOTAL E&P, CHEVRON, UERL, UNICEF, ICRC, NDDC, Rivers, Akwa-Ibom, Enugu, Imo, Bayelsa States Governments, West African Pipeline Incorporated and Nigeria Liquefied Natural Gas Limited (NLNG) among many others. We are also involved in World Bank assisted water schemes and community development projects. We have various links with overseas agents that source and procure materials including oil tools and various oil industry machinery spare parts on our behalf for our clients' use. More so, we have networks of seasoned drillers and experts in corrosion mitigation, dredging, geotechnical and geosciences who are in our manpower pool on part time or full employment. Our main Technical Partner in Nigeria is WINSKO SERVES LTD and PASADA GLOBAL SERVICES.

2.0 VISION

To become one of the foremost companies of integrity in West African Sub region servicing oil and Gas companies in our areas of specialization.

3.0 MISSION

To become one of the leading companies providing first class services, especially in Corrosion mitigation, electrical, geotechnical, geophysical, dredging, construction, environmental and subsurface engineering. In addition, through our investments and technology advancement, we intend to expand our service horizon by exploring new grounds that will have positive effect on mankind and her environment.

4.0 OUR CLASSIFIED SERVICES

- ELECTRICAL EARTHING
- PIPELINE CATHODIC PROTECTION & STRUCTURE CORROSION MITIGATION SERVICES
- GEOPHYSICAL , GEOTECHNICAL INVESTIGATION & WATER DRILLING
- CIVIL CONSTRUCTION
- SAND DREDGING & PILING
- ENVIRONMENTAL IMPACT ASSESSMENT

4.1 Services in Detail

- Earthing
- Preliminary Cathodic Protection Survey(Resistivity, CP Layout,etc), Cathodic Protection Design, CP Procurement

- Cathodic Protection Installations(Anodes, Test Posts, Cable Cadvelding and PinBrazing)
- Ultrasonic Test(NDT)
- Geophysical: 2D Resistivity, Seismic (Onshore & Offshore), Sub-bottom Profiling, TDEM,
- Magnetic, Gravity, Soil thermal resistivity etc.
- Borehole drilling/Water Scheme/ Solar Power Installation
- Geotechnical/Soil Investigation
- Positioning/ Topographic and hydrographic Survey
- Hydrogeological study
- Environmental services
- Rock Blasting Design and Execution
- Close Interval Potential Survey(CIPS)
- Pipeline Current Mapping(PCM)
- In Line Inspection (Pigging)
- Direct Current Voltage Gradient(DCVG)
- Coating Repair
- Sand blasting
- Sand Dredging
- Swamp Boogie designing, fabrication and leasing
- Site Acquisition/Preparation
- Marine recovery/Diving Services
- Borehole Logging and Downhole camera Survey
- Flood Control Design
- Pile Foundation design and Installations
- Pile Driving Monitoring(PDM)
- Pile Integrity Testing (PIT)
- Pile Load Test(PLT)
- Supply of Oil Field Equipment and Materials

5.0 PROJECTS

The Company has successfully executed over sixty projects in the West African Sub region. From our diverse experience, prototypes of the projects are sampled below:

SELECTED PROJECTS EXECUTED IN ELECTRICAL WORKS

S/N	PROJECT TITLE	CLIENT	DATE
1.	Earthing and Lightning Protection of Prime Port's Permanent Building, GRA, Port Harcourt	Prime Port Logistics	2023 (completed)
2.	Resistivity and Earthing of Solar Water Facilities at Odoroikpe	ICRC	2021 (completed)
3.	Earthing and Lightning Protection System for Workshop/Warehouse, Closed drain Shelter, Water Separator Skid, Pig Launcher Skid Area, Temporary tank storage area, Condensate storage tank B Area, Office Area (Behind the pantry caravan) and Telecom Mast At Ebok Field	OERL	2019 (completed)
4.	ANOH-Gas Project-Facilities Earthing	Oilserv	2021 (completed)
5.	Solar Water Project Earthing	ICRC	2017 (completed)
6.	Replacement of 1000KVA, 11/0.415KV Transformer	Globacom,Switch, Abuja.	2016 (completed)
7.	Installation of 100KVA, 11/0.415KV Transformer and Earthing	Globacom,Switch, Osogbo	2016 (completed)

SELECTED PROJECTS EXECUTED IN PIPELINE CP AND CORROSION MITIGATION

S/N	PROJECT TITLE	CLIENT	DATE
1.	Geotechnical/Resistivity/Earthing along NNPC Pipeline ROW-Warri – Benin, Port Harcourt-Enugu, Port Harcourt-Bonny	Eadro/Ocean Marine Solution	2017-2019 (Completed)
2.	Supply of Materials for Temporary CP and Installation at site for SSSGEP-CP Design,Cadwelding of cables, taking potential measurement,installation of magnesium anode and test posts,etc	Dessicon/Saidel Ltd	2018-2019 (Completed)
3.	Gas Lift Integrity Verification Project (CP Trouble shooting and Pipe to soil Potential, UT, etc)-1st Call Up Contract Completed in March	AJ Donas& Company Optimum Ltd/SPDC	2016-2017 (completed)
4.	Resistivity Survey of 18km pipeline from Abasere Manifold to Zarama Manifold	SPDC/Eadro	2016 (Completed)
5.	Installation of Horizontal Groundbed for the protection of Cooling Water System Pipeline and Well Casings.	IPP, Okpai/Fio International ltd	2015 (Completed)
6.	Resistivity Survey of Tran-Niger Pipeline, Onne	SPDC/Eadro	2015 (Completed)
7.	Potential Survey, Ultrasonic Test of Cawthorne Channel &Awobaflowlines and well head (SPDC contract)	George-Christy/ SPDC	2014 (Completed)
8.	Design and Installation of Impressed Current Cathodic Protection for the 6” x 31km Pipeline route for the Stubb Creek lines.	Universal Energy Resources Limited(UERL)/ALDUCO	2013-2014 (completed)
9.	Resistivity survey and Groundbed location for the Northern Option Pipeline (NOPL) Project.	TOTAL E&P (Nigeria) Limited/SAIPEM	2012 (Completed)
10.	Maintenance of the OANDO “Passion” Rig	OANDO	2012 (Completed)
11.	GbaranUbie Pipeline Project – Deepwell GB Construction	SPDC/SAIPEM/Bonnedo	2009 (Completed)
12.	*West African Gas Pipeline (WAGP) Project –Deep well Construction and Resistivity Sounding	Wilbros/West African Gas Pipeline(WAGP)/Bonnedo	2007 (Completed)

13.	*Design and Installation of Cathodic Protection System for 70KL slop pressure tank	Indorama Eleme Petrochemical Company	2007 (Completed)
14.	*EGGS Pipeline CP Resistivity and Test Post Installation	SPDC/Wilbros/B+B/ Bonnedo	2005 (Completed)
15.	*Resistivity Survey, CIPS & DCVG of 100km Obajana-Ajaokuta hot tapping point(DangoteObajana Cement plant)	Wiss Engineering Ltd	2005 (Completed)
16.	*Pigging of LNG lines(GTS)	NLNG/Polmaz	2004 (Completed)
17.	*UbetaObiafu (OB/OB)Project	NLNG/Polmaz	2003 (Completed)
18.	*Nembe Associated Gas Gathering(AGG)	SPDC/Wiss Engineering Ltd	2000 (Completed)

*Works were performed with Geodreels Engineering Services

PROJECTS EXECUTED IN GEOPHYSICAL, ENVIRONMENTAL, GEOTECHNICAL & WATER DRILLING

S/N	PROJECT TITLE	CLIENT	DATE
1	Soil Electrical Resistivity Investigation for PHRC Plant Area	Tecnimont	31-05-23
2.	Borehole Drilling and Installation (Stainless Steel Casing Industrial Water) Project, Daewoo Abam Base DDP.	Daewoo	Completed(2023)
3.	Ubeta Development Geophysical and Geotechnical Investigation for Wellhead Location and Pipeline Route(100% Geophysical solely executed)	Kyje/ Total Energies	Completed(2022)
4.	Construction of Solar Powered Borehole in Odoroikpe	ICRC	Completed(2022)
5.	Provision of Environmental and Social Impact Assessment on the proposed Construction of Sewage Treatment Plant in Chokoocho Etche Rivers State.	Judora Integrated Services Ltd	Completed(2021)
6.	Construction of Water production Facility in Koluama 1 and Koluama 2 and Treatment Plant	Conoil	Completed (2020)
7.	Topographic Survey for the Construction of Golden Jubilee Mall at Aerodrum, Port Harcourt	NS Solving South Africa	Completed (2019)
8.	Construction of Water Supply Facilities in Otoni –Ama, Defaka – Ama in Opobo Nkoro L.G.A of Rivers State.	RUWASA/UNICEF	Completed (2019)

9.	Rehabilitation of Solar Powered Water Supplying Tuomu, Burutu L.G.A of Delta State	ICRC	Completed (2019)
10.	EIA, Geotechnical and Geological Investigation for the Construction of Golden Jubilee Mall at Aerodrum, Port Harcourt	NS Solving South Africa	Completed (2019)
11.	Consultancy on NOPL: Geophysical Survey, Drilling of 22 inches S by 200m depth water and Wireline logging of the well	Renzolina Services Ltd	Completed (2016)
12.	Environmental and Social Impact Assessment for the construction of 2X2145 Mw Power Plant.	Pacific Energy Company Ltd	Completed (2015-2016)
13.	Resistivity survey of the 6" x 31km Pipeline route for the Stubb Creek Lines.	Universal Energy Resources Limited (UERL)/SIPEC/ALDUCO	2013 (Completed)
14.	Geotechnical & Seismic Survey for the Northern Option Pipeline Horizontal Directional Drilling (HDD) locations	TOTAL E & P LTD/SAIPEM/LUDOF	2012-2013 (Completed)
15.	Downhole Logging & resistivity for the SPDC Swamp Flow station Industrial Water Borehole.	SPDC/Charlech/Grok	2012 (Completed) N2.6M
16.	Seismic Multi-Channel Analysis of Surface Wave (MASW) Survey at the Ibom International Airport Terminal Building	Akwa-Ibom Government/EADRO	2012 (Completed)
17.	Seismic downhole & Resistivity survey at the AFAM-Independent Open Cycle Power Plant Project	Rivers State Government /SAIPEM	2012 (Completed)
18.	Geotechnical Survey for Otumara-Saghara-Escravos Pipeline Project.	SPDC/SAIPEM/Ludof	2011 (Completed)
19.	Pump Fishing (Downhole Camera Survey) Okpai .	AGIP/Fio International Limited	2010 (Completed)
20.	FGN/UNICEF "Wash" Community Development: Construction of solar powered water borehole	UNICEF/Bayelsa State Government	2010 (Completed)
21.	Geotechnical / soil investigation for Cawthorne Channel Manifold and San Bartholomew Manifold.	SAIPEM/SPDC	2008-2009 (Completed)
22.	Environmental Impact Assessment for Alaoji Power Plant.	Rockson	2006 (Completed) N6.5M
23.	Trunkline Replacement Project Resistivity Survey of Nembe 1, 2, 3 & 4 flowstations, Bille, Odeama, Belema, Cawthorne Channel 1, 2 & 3 Flowstations, Belema, sanbarth Manifold, Tora Manifold, and Awoba Flowstations, Ekulama 1 & 2 flowstations & Ewekulama	SPDC/EADRO VENTURES	2006 (Completed)

SAMPLES OF PROJECTS EXECUTED IN PILING, DREDGING AND CANALIZATION

S/N	PROJECT TITLE	CLIENT	DATE
1.	Predredge Survey, Dredging, Sweeping and Canalization, Slot Cleaning of wellhead Area Area of Awoba FlowatationSPDC Project)	Litewell	2022(Completed)
2.	Completion of Otiokpoti Jetty Piles Construction;existing pile recovery, pile preparation, installation and Pile Integrity Test	NIWA/Octopus Synergy Ltd	2020 (Completed)
3.	Piling for the Construction of Odorubu Jetty	Zef Construction Ltd	2018 (Completed)
4.	CFA Piling, PIT, PLT IN OWAZA for NOPL	LUDOF/SAIPEM	2014 (Completed)
5.	Dredging of Ase-imota River in Omokufor Agip Well head preparation	RAYCOM & CO. LTD /AGIP	2013-2014
6.	Piling for pipeline Foundation	SPDC/SAIPEM/LUDOF	2011-2012
7.	Dredging, canalization and slot cleaning of creek 62 & 64 of the NCTL Project	OIS-GREDON(SPDC)	2011-2012
8.	Extraction of old sheet piles / installation of new sheet piles and construction of COFFERDAM	OIS-GREDON(SPDC)	2011 (Completed)

9.	Sand dredging at Elebrada Community Choba, River State	SAIPEM / SPDC	2010 (Completed)
10.	Shoreline protection / land reclamation	SAIPEM / SPDC	2009-2010 (Completed)
11.	Platform foundation piling for Cawthorne Channel Manifold and San Bartholomew Manifold –NCTL Replacement Project	NDDC	2008 (Completed)
12.	Canalization & Sweeping of 3.1km at Abonema/Elechi Creek	NDDC	2008(Completed)
13.	Canalization of Omoku River	NDDC	2007(Completed)
14.	Consultancy Services on Quality Assurance / Quality Control of Survey Projects: bathymetric surveys, dredging activities, pipeline constructions, well fix of various drilling location sites, mapping of areas affected by oil and chemical spillages and construction damages for Environmental Impact Assessment exercise.	SPD/LUDOF	2000-2006(Completed)

6.0 SOME SELECTED SITE PICTURES



Resistivity Investigation (Vertical Electrical Sounding) for Groundbed in Port Harcourt Refinery.



Pipeline ROW Resistivity Survey of 6 inch x 31Km Stubb Creek
Universal Energy



Preliminary Cathodic Protection Survey and Earthing @ Enwe
East Ahoada(SPDC Pipeline)



Cathodic Protection Groundbed and Transformer Rectifier ready for connection



Earthing and grounding in OERL Site, Akwa Ibom



Cathodic Protection Test Post Installation for Saidel/Desicon SSSGEP (SPDC Project)



ANODE DEEPWELL GROUNDBED CONSTRUCTION IN GBARAN-UBIE PROJECT



Installation of Anode on Piles



Welding joint on lines



MPI, UT, X-RAY works at site

EXECUTED JOBS IN PILING



Installation of Cathodic Protection System for 70KL slop pressure tank



Piling and Sacrificial Anode installation on Piles



A: Deepwell GB Drilling . B and B2: Lida Anode Installation C: Coating Repair D: Cadwelding of cables on pipeline and handycap installation.



CFA Piling in action at NOPL, Owaza

EXECUTED JOBS IN SAND DREDGING & CANALIZATION



Canalization Operations



Dredging Operations



Dredger and Excavation Equipment



Dredgers



Swamp Boogie and Bailer in Operation



EXECUTED JOBS IN WATER SCHEME AND GEOTECHNICAL ENGINEERING



Drilling Work in IPP Okpai and Reticulation



Pumping Test Ongoing

Sets of Drilling Stems



Tank Tower Solar Installation and Piping



Opobo Nkoro L.G.A. Rivers State RUWASA Completed Project



Piping valves and Reticulation



Cone penetration test in Operation



Borehole Drilling Operation



Industrial Borehole in SPDC Flowstation



Soil Investigation in a Swampy terrain



Well Development at Okpai IPP Cooling Water System, Delta State



Ingersollrand Air Compressor



T- Joint of Water Distribution



500,000 Gallon Tank in Benin



water Distribution



Geotechnical survey along Pipeline route



Soil investigation in a swamp



Positioning survey

SPECIFIC RELEVANT PICTURES FOR WATER PROJECTS





WATER AND TREATMENT PLANT PROJECT COMPLETED FOR ICRC AND RUWASA



WATER PROJECT WITH STATE OF THE ART UV LAMP SYSTEM INSTALLED IN THE CONSTRUCTED RESERVOIR BRAITWAITE TANK(DAEWOO-LNG T7 PROJECT)



DEVELOPMENT PHASE OF THE DAEWOO PROJECT(LNG TRAIN 7)





EXECUTED JOBS IN ENVIRONMENTAL SERVICES



AIR QUALITY/NOISE MEASUREMENTS



SEDIMENT SAMPLING

EXECUTED JOBS IN GEOPHYSICAL SERVICES



Vertical Electrical Sounding at Eket



Downhole logging at SPDC Flowstation



Seismic survey along the NOPL route



Seismic MASW at Ibom Airport

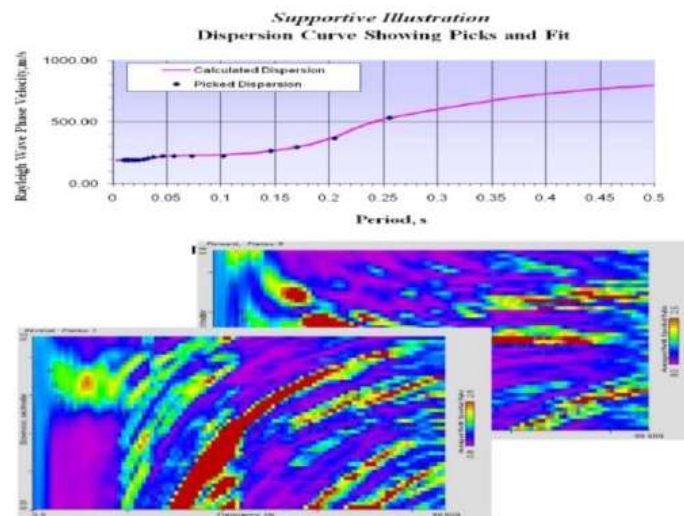
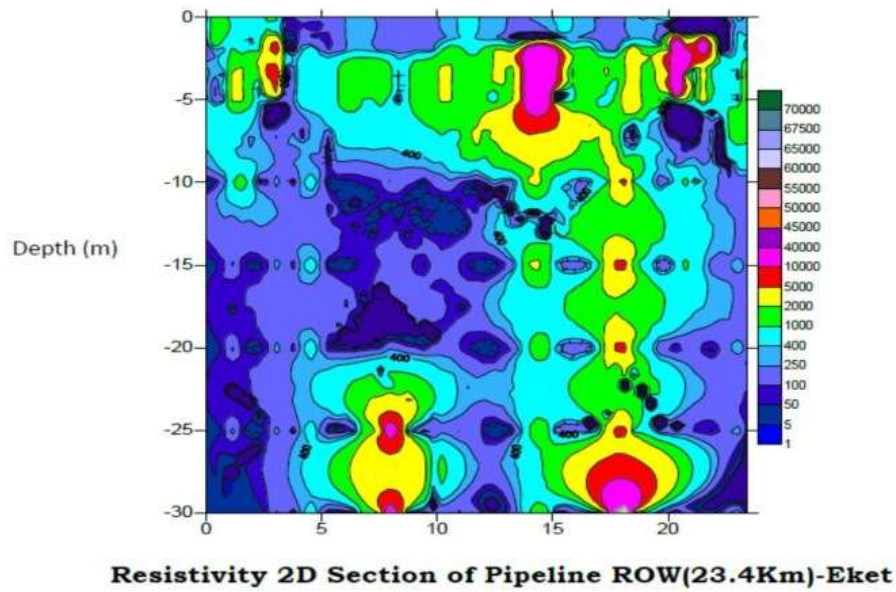


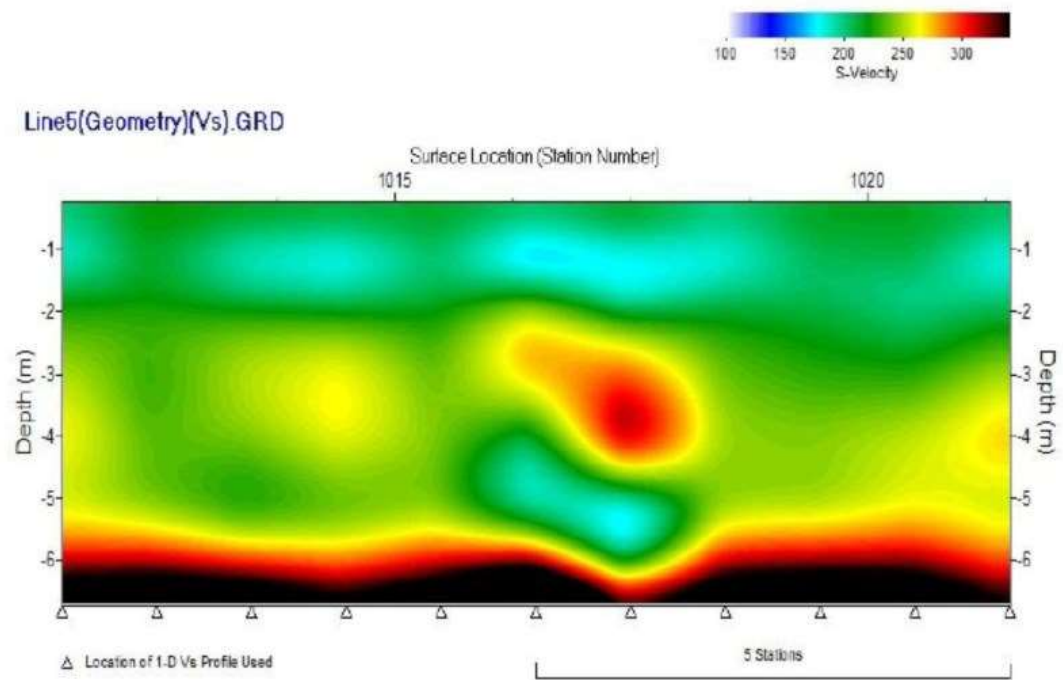
Resistivity Survey at AFAM IPP



Shallow Gas Survey Operation in Brass

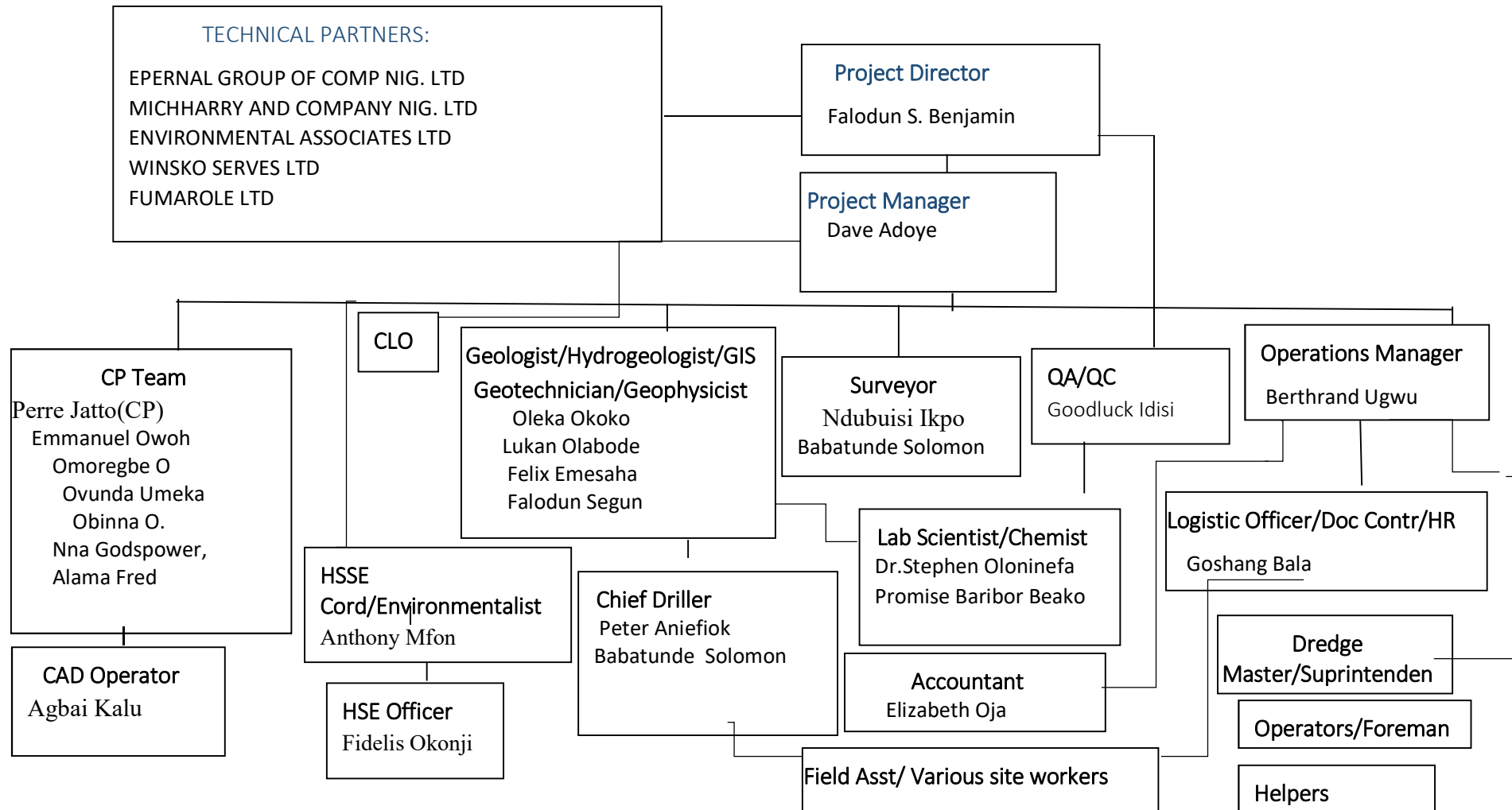
7.0 SAMPLES OF GEOPHYSICAL DELIVERABLES





2-D SHEAR WAVE VELOCITY MODEL ALONG TRAVERSE

8.0 COMPANY ORGANOGRAM



9.0 PROFILES OF KEY PERSONNEL



ENGR. SEGUN FALODUN, mnmgsc.c.engr.comeg, Msc.

Segun Falodun is the Managing Director of the company. He is an astute engineer and geoscientist who started his professional career as a Field Engineer in 2000 at Wiss Engineering Ltd., Port Harcourt. While at Wiss Engineering Ltd., he successfully executed 20 cathodic protection of oil and gas pipelines and other steel structure projects. As a freelancer and having consulted for several organizations for 23 years, he is versatile in Oil and gas-related jobs, with stints in petroleum production geoscience, reservoir engineering, water production, dredging, corrosion engineering, pipeline construction, geotechnical engineering, foundation engineering, and geophysical services in the difficult terrain of the Niger Delta (Nigeria), Cotonou (Benin Republic), Togo, Tema, Takoradi (Ghana), and Sao Tome. He has carried out over 2500 Vertical Electrical Soundings, and quite a lot of seismic tomography, MASW, NDT, marine sub-bottom profiling and software interpretation in the West African sub-region. He is a crusader of 'incorporating geophysics into every environmental, corrosion and geotechnical work'. He is skillful in the usage of Petroleum and geophysical software like MS Office, Petrel, Sapphire, Prosper, MBAL, RESIST, RESIX, SURFER, AUTOCAD, ROCKWORKS, TECHLOG, etc.

He was a Senior Project Engineer at Polmaz Ltd, Port Harcourt, from 2002 to 2004. From 2004 to 2008, he was Project Manager of Geodreels Engineering Services, which birthed Geogreatotechnics & Geodreels Ltd (GGL); he briefly worked as a managing consultant to both GGL(2008-2011) and Passion rig fabrication of Oando Energy Services (2011-2012). He was elevated through board resolution to the position of Managing Director in 2008. Engr. Segun Falodun holds two Master of Science degree; Petroleum Geoscience in the Center for Professional Petroleum Engineering and Geosciences (CPPEG) Federal University of Petroleum Resources (Distinction), and a Master of Science (Distinction) and a PGD both in Applied Geophysics from Rivers State University of Science and Technology (2022-2023, 2011-2013, 2005-2006). He obtained an HND in Geological Engineering (Upper Credit) from Kaduna Polytechnic, Kaduna, Nigeria (1992-1998). Engineer Falodun had his secondary education partly in Government Secondary School, Kontagora, Niger State, and St Augustine's College, Kabba, Kogi State, 1985-1991. He had elementary education at Model Primary School and Nagwamatse Primary School, Kontagora, Niger State, 1979-1985. In his usual quest for knowledge, he is running his third Msc. degree in oil and Gas Energy Management in the University of East London, United Kingdom.

He belongs to many professional bodies -the Nigeria Mining and Geosciences Society (NMGS), the Society of Petroleum Engineers, the Nigerian Environmental Society Pipeline Professional Association of Nigeria (PLAN), and Associate member of the prestigious Society of Exploration Geophysicist (SEG). He registered with the Council of Nigerian Mining Engineers and Geoscientists (COMEG). His works are in journals on Engineering Technology, and has been referenced more than 500 times on academic research. He loves playing table tennis, basketball, golf, and travelling. He is married with three children.



Bos Gerrit

Executive Director(Consultant)

Bos Gerrit is the Executive Director of Geogreatotechnics and Geodreels Ltd. He is a Dutch civil engineer with over thirty- years of experience in Civil Engineering foundations, pipelines, and construction. Bos has worked in various capacities in SpiBat,(JV) Fougerolles, Julius Berger, Wilbros, etc. He has in-depth knowledge of Dredging, Piping, Piling, and Foundation Engineering. He has done a lot of foundation design/check of some civil facilities like platforms, civil/structural studies, and in-house designs in the Netherlands and Nigeria. Some of his Civil foundation works include low voltage carrying concrete poles at Ewelesou Community and Design of Pile Foundation for 30,000- Gallons sitting on a 15m Elevated Water Tank for the Nembe Creek Community and NLNG, Bonny.



Dave Adoye

Geophysics/ Water Resources Manager

Dave Adoye is currently the head of Geophysics and Water Resources. He is an expert in Solar water Boreholes. Mr Dave holds a Bachelor of Science in Geophysics (2nd Class Upper Division) from Edo State University (now Ambrose Ali University) and currently pursuing an Msc. degree in Engineering Geology/Hydrology at the University of Port Harcourt. He has over 17years cognate experience in water projects. He has delivered successfully over 15 solar water projects for NDDC and other organizations. Mr Dave Adoye has worked in several Geophysical and ground water prospecting companies in various capacities. He is one of the pioneers of the usage of Solar for water borehole schemes in the Niger Delta. He is a corporate member of the Nigerian Mining and Geosciences Society.

10.0 QUALITY PROCEDURE

Every Material has relevant MATERIAL TEST CERTIFICATE as tested in accordance to international standards of quality & performance

We always look to:

- + Understanding and satisfying our customer's needs and expectations.
- + Make commitments we fully understand and believe we can meet.
- + Meet all commitments of our customers with quality service.

11.0 HSE POLICY STATEMENT

GEOGREATOTECHNICS AND GEODREELS LIMITED is committed to the provision of a safe and healthy work environment for all personnel and members of the public in all her operation and administration locations. Safety is a priority and second to none in the process of project executions or operation and in respect of this; we take all the necessary procedures or steps required to curb or reduce the chances of injury, accident, or illness in any of our work site.

We ensure all conditions that involve instrumentation and control is primary.

Our HSE policy in GEOGREATOTECHNICS AND GEODREELS LIMITED includes:

- All standard priority shall be given to the Health, Safety and security of Employees, Contractors, and Members of the public.
- All materials and equipment shall be certified prior to usage.
- Job hazard analysis (JHA) shall be done before commencement of work at all sites and note the potent risks associated with the job and infer control measures.
- Achieve and maintain continuous improvement in HSE performance. Safety and awareness training on recent advancement/information or technologies in HSE shall be imparted among the staff and other workers.
- We shall maintain professionalism and competence among our staff by motivating them to performing their duties in line with the policy, and review and develop new HSE practices and procedures.
- Always have a cordial and harmonious relationship with host communities.
- Our HSE policies shall consistently be implemented according to client's standard, the relevant laws and regulations guiding the operations in the Federal Republic of Nigeria and other host nations.