



OIL AND GAS

EST

## Oil & Gas



CLIENTS  
WHITE NILE LTD

With the growth of the upstream sector and its expansion into the developing economies, ESF is assisting oil industry and other commercial clients with technologies of managing environmental challenges and liabilities involved with new exploration, development, and construction activities. Specifically, ESF Consultants has been a leader in providing technical support and environmental management services to the sector including oil and gas production, drilling and exploration for over ten years.

Our Oil and Gas sector has undertaken natural resource studies for the major players in the industry and delivered high quality results that ensured their projects complied with legislative obligations and ran harmoniously with other stakeholders for both onshore and offshore exploration activities. This has strengthened the operations of our clients in this industry where strategically companies: face close public scrutiny; have stringent legal obligations; have high financial risks, and have rising demands to return on investments in the global economy.

The firm applies some of the oil and gas industries best practices including equator principle, extractive industries protocol, World Bank, and other similar requirements, thus assisting clients with obtaining environmental permits for: new developments; the safe discharge of materials during exploration and production; and the construction of new pipelines and facilities.

ESF offers services in the oil and gas industry, covering both onshore and offshore oil exploration programs, including;

- Development of Waste Management Plans
- Environmental and Social Impact Assessment
- Development of Risk Management Plans
- Resettlement Action Plans
- Environment, Health and Safety Plans
- Baseline ecological surveys for both terrestrial and Marine environments
- Socio-economic surveys
- Marine surveys
- Hydrological Surveys
- Development of Scoping studies and stakeholder engagement plans
- Development of Communication/ Notification strategies
- Environmental Monitoring and Grievance Redress Mechanisms.

### ONSHORE OIL EXPLORATION

The Firm is retained as the environmental management advisor for oil exploration and drilling in Southern Sudan.

White Nile Ltd contracted ESF to undertake Environmental and Social Impact Assessment for Oil drilling and exploratory activities on the Block BA. The scope of the study involved centred on the identified 3-4 drill locations on which to drill early in 2007. ESF scientists collected baseline data for future socially and environmentally acceptable drilling and related activities. Other specialist studies included Socio-economic, Hydrological, Biological and Resettlement.

For further information contact;  
James Kambo  
james.kambo@esfconsultants.org  
Tel: 254-020-3-876-512  
Cell: 254-736-100-204  
254-736-100-205  
Fax: 254-020-3-860-608

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CLIENTS  
KENGEN  
FMCS (UK) LTD  
ANADARKO KENYA COMPANY

### OFFSHORE OIL EXPLORATION

#### FUGRO MULTI-CLIENT SERVICES (UK) LIMITED

In 2013, FMCS proposed to perform a 2D seismic survey program to explore for hydrocarbons resources in waters offshore Kenya in Block L- L-21, L-22, L-23, L-24, L-25, L-26, L-27 & L-28, off the Kenyan coast. The survey is to be conducted in ultra-deep water of approximately 3,000m in depth. The seismic survey will be performed in estimated total length of 11,800km within the eight blocks. The estimated minimum distance that the survey will operate is 100km.

ESF undertook an Environmental and Social Impact Assessment study that analyzed the socio-economic and ecological baseline conditions to predict impacts based on the project's proposed activities and extensive stakeholder consultation, in order to develop mitigation measures and risk management programs. The risk management programs for the project included developing and implementing a stakeholder communication strategy for the proposed activities as well as a Grievance Redress Management System.

This was made possible by collection of Baseline Environmental Conditions including terrestrial and marine environment in the ESIA as well as development of stakeholder engagement plan that identified and engaged various stakeholders relevant to the project.

#### ANADARKO KENYA COMPANY (AKC)

Anadarko Kenya Company (AKC) proposed to perform a seismic survey program to explore for hydrocarbon resources in waters offshore Kenya in Blocks L-05, -07, -12, -11A and -11B. The survey was conducted only in water that is 200m deep or greater and resultantly most of the survey was conducted in waters between 1,000 and 3,000m deep. The survey's purpose was to collect up to 5000km of 2D geophysical data (1000km in each block) through a specifically designed seismic vessel supported by a smaller vessel and one or more 'chase' vessels.

ESF was consulted to undertake an Environmental and Social Impact Assessment for the proposed project and ESF collected Baseline Environmental Conditions including terrestrial and marine environment in the ESIA and did not identify any new significant environmental or social conditions that required consideration with regards to potential impacts. The ESIA Team reviewed each impact in the ESIA including the consequence, likelihood and overall rating of each impact and evaluated the impacts that were rated with an overall "low" rating in the ESIA were determined to also be low for the 3-D survey.

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Cell: 254-736-100-204  
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**CLIENTS**  
BG KENYA LTD  
APACHE CORPORATION  
DOMINION/OPHIR ENERGY  
FAR LTD/FLOW ENERGY  
ANADARKO

### BG KENYA LTD

ESF were contracted to undertake environmental and social assessment for the proposed BG Kenya Ltd Seismic Survey and drilling program offshore Kenyan Coast on blocks L10A & L10B in 2010 and 2013.

The survey covered ~2600km<sup>2</sup> 3D survey over the eastern portions of blocks 10a and 10b. The water depth in the area was approximately 1500 m and the main targets were structural leads identified on 2D legacy seismic with reservoirs of late Cretaceous to early Tertiary age. The study included marine survey, socio economic survey of fisher forks marine activities, stakeholder consultation, impact identification, analysis and evaluation. In 2012, ESF developed a stakeholder communication strategy for additional seismic survey program thus keeping stakeholders informed throughout the project.

### APACHE CORPORATION

The firm was contracted by Apache Corporation of the US to carry out Environmental and Social Impact Assessment (ESIA) for the proposed Initial Drilling and Seismic Survey Programs for Block L-08 and L-09 off the central coast of Kenya.

The tasks also included formulating a stakeholder communication plan on project commissionin and implementing a Grievance Redress Management System for the project.

### DOMINION PETROLEUM/OPHIR ENERGY

ESF was also engaged by Dominion Petroleum and Ophir Energy to undertake an Environmental and Social Impact Assessment for an Offshore Seismic Survey on Block L09 and L15. The study analyzed both socioeconomic and ecological baseline conditions to predict impacts based on the project's proposed activities, in order to develop mitigation measures and risk management programs. This was also informed by an extensive stakeholder consultation exercise covering Central and North Coast.

Part of these risk management programs for the project included developing and implementing a stakeholder communication strategy for the Seismic Survey once commissioned as well as a Grievance Redress Management System.

### FAR LTD/FLOW ENERGY

FAR Ltd engaged ESF to develop a communication strategy and establish a Grievance Redress Management System for FAR Ltd's Seismic Survey in Block L06 Offshore Kenya. ESF established the risk management plans by engaging stakeholders and keeping them informed throughout the project. ESF also guided FAR Ltd on the management of grievances to ensure the project runs harmoniously with all stakeholders.

### ANADARKO KENYA COMPANY

Having undertaken Anadarko Kenya Company's Seismic Survey Environmental and Social Impact and developed the project's Stakeholder Communication Strategy, ESF was further engaged by Anadarko to undertake the Environmental and Social Impact Assessment for Anadarko's Exploratory Drilling in Blocks L07, L11A and L11B.

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WWW.ESFCONSULTANTS.ORG

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