



CIAXTON
TECHNOLOGIES

COMPANY PROFILE





INTRODUCTION

“
Ciaxton Technologies Nigeria Limited is a 100% indigenous oil services company. It was incorporated in December, 2010, specializing mainly on down hole leak repair equipment.

Ciaxton Technologies has recorded tremendous success in performing wellhead restorative engineering activities such as leak analysis,

diagnostics and repair operations using a proprietary sealant.”

Mission

“
To be a proactive oil and gas service provider company committed to prompt satisfaction of our customer and the creation of sustainable value for our stakeholders.”

Vision

“
To become the preferred indigenous Oil services company known for the provision of cost effective services and Equipment supply.”





SERVICES

“We resolve your well integrity challenges, efficiently and put your well back on stream.”

- **SUSTAINED CASING PRESSURE**

- **ADVANCED WELL HEAD LEAK REPAIR**

- **CEMENTING & REMEDIAL CEMENTING**

- **DRILLING LUBRICANT**

- **WATER & GAS SHUT OFF**

- **LOST CIRCULATION TREATMENT**

- **SCSSV CONTROL LINE REPAIRS**

- **HYDRAULIC TESTING & REPAIRS**

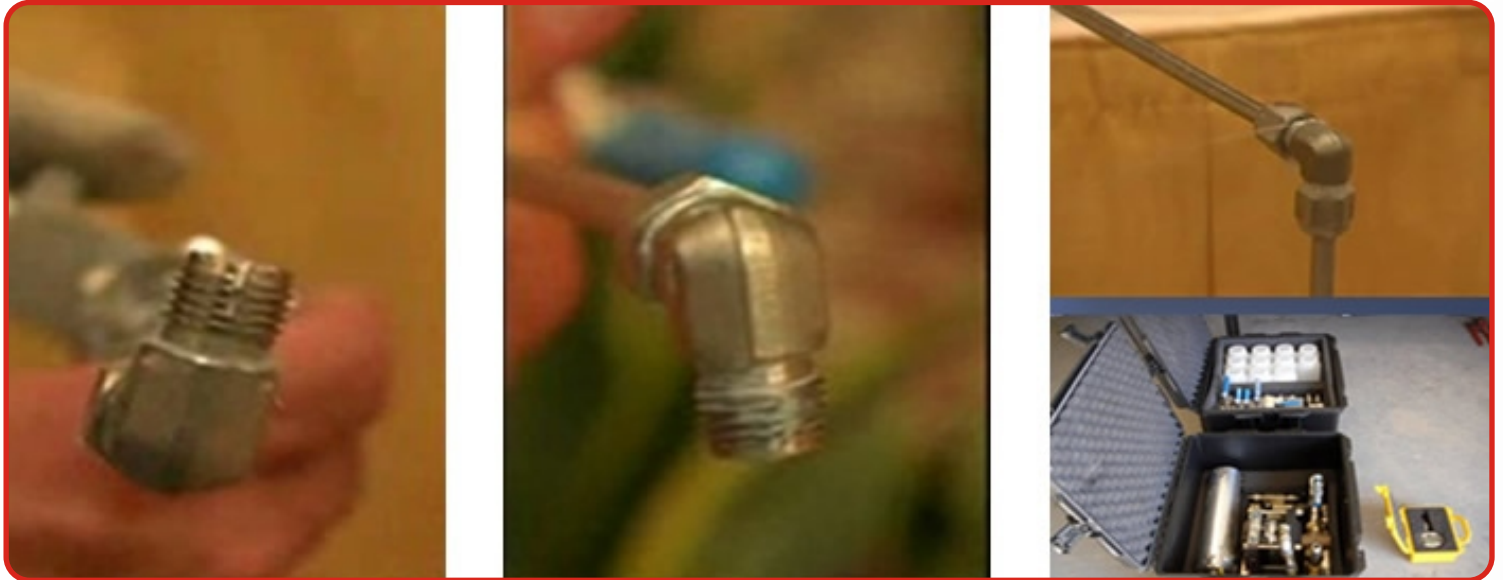
AQUAFIELD PRODUCT



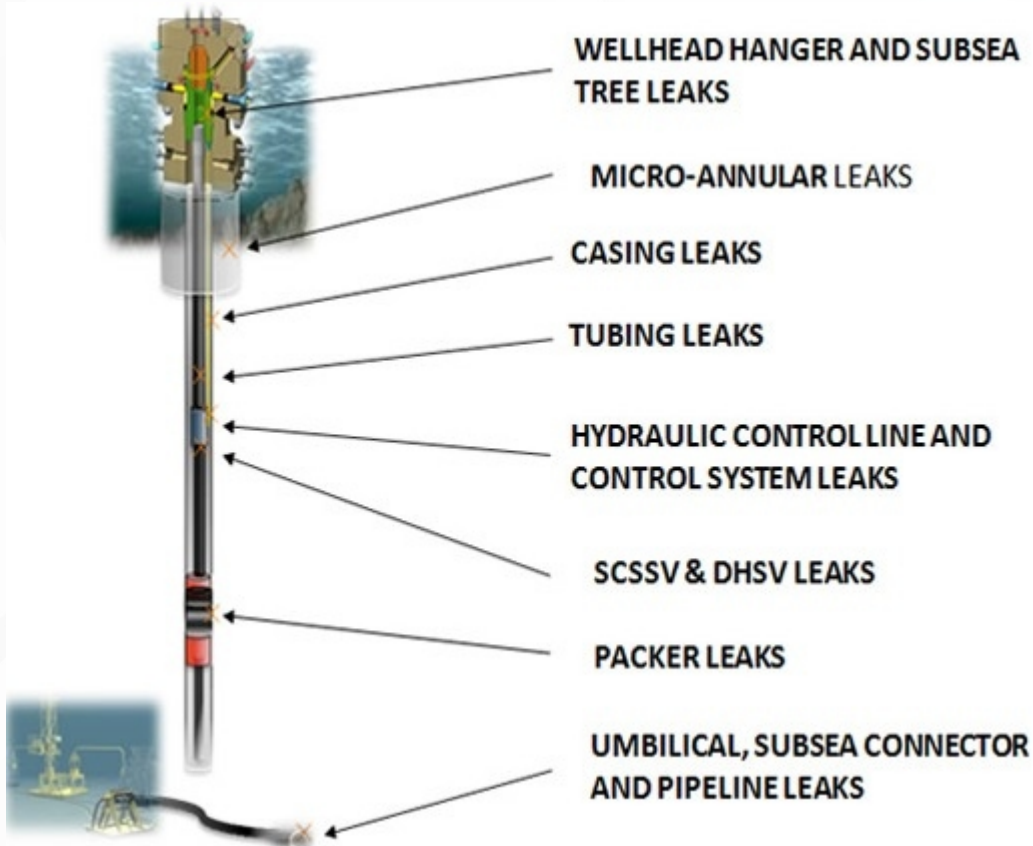


SEALANT OVERVIEW

Our sealants activate based upon pressure differential and shear within a leak site, causing the chemicals to transform from a liquid to a solid, within the leak point, repairing the system to full operational capacity quickly, efficiently, and permanently.



APPLICATION

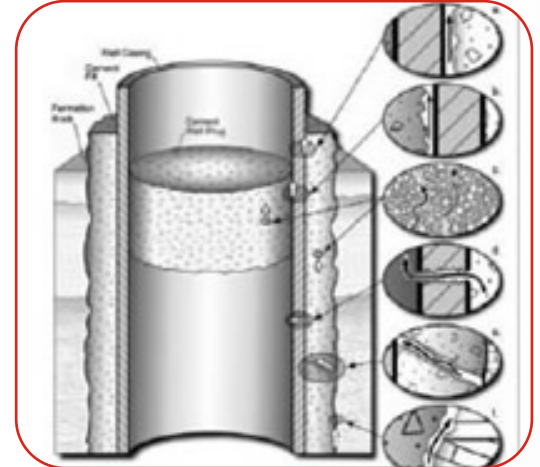




PRODUCT LINES

GF TRADEMARK

- Pressure Activated Sealant
- Time Activated Sealant
- First Line Well Head Maintenance
- Second Line Well Head Maintenance



EXPOSY RESIN SEALANT

- Placement Versatility
- Adhesion Strength
- Mechanical Strength
- Degradation Resistance
- Differential Pressure
- Management
- Zero Permeability





PRODUCT LINES

SEALANT DELIVERY METHODS

- Pump down control lines
- Pump down tubing and casing
- Deliver by wireline dump bailer
- Pump down coiled tubing
- Atomize the sealant into gas stream
- Pump down subsea umbilical lines
- Pump from an ROV “Belly Tank”s.

SEALANT ADVANTAGES

- Sealant applications are engineered to precisely match each specific leak condition.
- Sealant can be adjusted for any leak profile, any leak rate, and can be adjusted for the subsea or downhole equipment present
- Proven success rate.
- The sealant seals only at the leak site and can remain in the system indefinitely.
- Eliminates the need to perform an expensive work overs.
- Minimizes risk to the environment and can withstand pressure from all direction.

WELL INFORMATION & DIAGNOSTICS

- Correctly identify the leak site
- Calculate leak rate and pressure differential

ENGINEERING THE PROCEDURE

- Verify leak rate and pressure differential.
- Engineer delivery of the appropriate sealant.
- Execute the procedure.



PRODUCT LINES

AQUAFIELD

What makes The AquaField™ unique?



Plug & Play – patented technology

- PVT Independent
- No configuration inputs needed
- Quick & Easy installation
- No Maintenance Requirements
- Easy-to-operate → possible to operate 100s of units without heavy service requirements / follow up

Low Cost

- Affordable per well on a field
- Providing online, real-time & continuous data on every well



AQUAFIELD™
PER WELL



Online, real-time
data from every well

DIGITALIZATION



Real-time data from the AquaFields on every well are used for continuous reservoir management and production optimization

CO₂ & COST REDUCTION



Decrease carbon footprint from production management & water management



Reduce cost on testing, water management and optimize production





EXPERIENCE

FIRST SEALANT OPERATION AUGUST 2013

Problem Description:

- Operator pumping 5 gallons of hydraulic fluid per day to keep safety valve open on well with CO₂, H₂S, 310F, 1200 psi SITP.

Pressure Activated Sealant Solution:

- Sealant was pumped into SCSSV control line.
- The differential pressure of the sealant passing through the leak Site activated the sealant and cured the leak to 5,000 psi.
- The leak was sealed in 2013 and is still holding.

Alternative Solution:

- Kill well, pull completion and replace the SCSSV at an estimated cost of US \$3,000,000.

TUBING REPAIR EXAMPLE

Problem Description:

- Tubing connection leak at 520 meters.
- Annulus pressure increased to 2,500 psi within 2 days.

Pressure Activated Sealant Solution:

- Sealant pill was injected into the annulus and displaced to the leak site with sodium bromide.
- The leak was repaired .

Alternative Solution:

- A tubing replacement workover would have required lost production and cost over US \$1,000,000..



EXPERIENCE

CASING HANGER REPAIR EXAMPLE

Problem Description:

- Old wellhead leaking H₂S and CO₂
- Leaks through primary and secondary hanger seals.

Pressure Activated Sealant Solution:

- Inject sealants into hanger test void to establish new seals.
- Cycled several times at normal operating pressure.
- Leak repaired and pressure tested.

Alternative Solution:

- Cut/mill/pull and replace casing and wellhead at estimated cost \$1,000,000.





JOB HISTORY

CIAXTON JOB HISTORY & SUCCESSES

S/N	LEAK TYPE	SUCCESSFUL	UNSUCCESSFUL	TOTAL OPERATIONS	SUCCESS RATE
01	Down Hole Equipment	8	0	8	100%
02	Micro Annulus	2	0	2	100%
03	SCSSV & Control Lines	29	4	33	85%
04	Wellhead & Hangers	27	1	28	98%
05	Well Diagnosis & Surveillance	7	0	7	100%
06	Sustained Casing Pressure	2	0	2	100%
07	Casing Hanger Repairs	5	0	5	100%
08	Tubing Repairs	2	0	2	100%
09	Packers	8	0	8	100%
TOTAL		90	6	95	95%





JOB PROCEDURE

STANDARD MOBILISATION PROCEDURE FOR SEALANT INTERVENTION

- You contact us via email, Telephone describing your leak application
- We supply you with a Trouble Shooting Data Sheet (TSD)
- We will jointly review TSD Sheet with our Technical Engineering team in USA and Nigeria.
- We propose a solution/Technical and commercial proposal
- You issue us a PO/contract
- We mobilize to site within 48 hours.

WHY WE ARE YOUR PREFERRED CHOICE?

- Team of highly qualified and experienced engineers.
- 11 years consistent track record.
- Over 100 field applications to date.
- Understanding of capabilities and limitations of the sealants and applications.
- Emergency response.
- Successful results.





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