

CASE STUDY 8



OILDATA WIRELINE SERVICES (OIDA ENERGY) LTD TECHNICAL CAPABILITIES

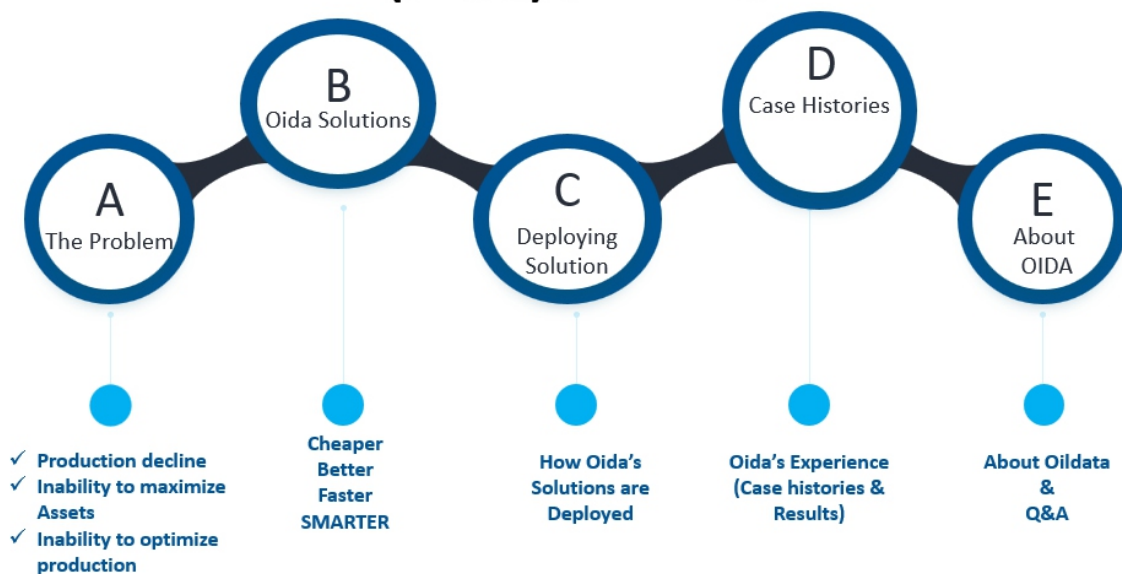
TO ACHIEVE COST-EFFECTIVE, SUSTAINABLE, QUICK OIL PRODUCTION INCREASE ACROSS OANDO'S OML 60, 61, 62, and 63 ASSETS.

PRESENTED BY: OILDATA WIRELINE SERVICES (OIDA ENERGY) LIMITED
MARCH, 2026



DISCUSSION GUIDE

WELL INTERVENTION SOLUTIONS - SHORT TERM OIL GAIN (STOG) STRATEGY



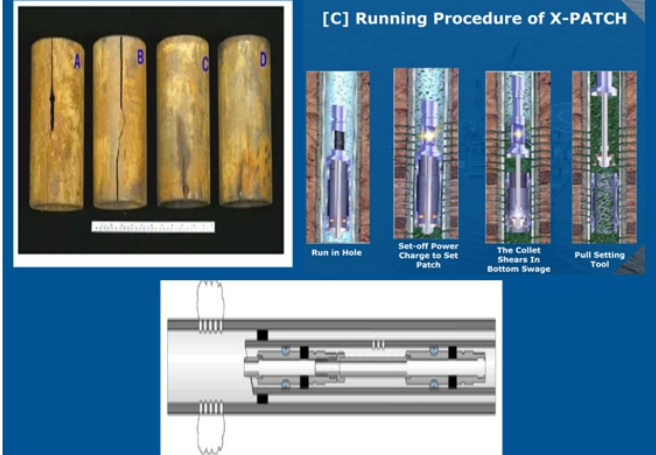
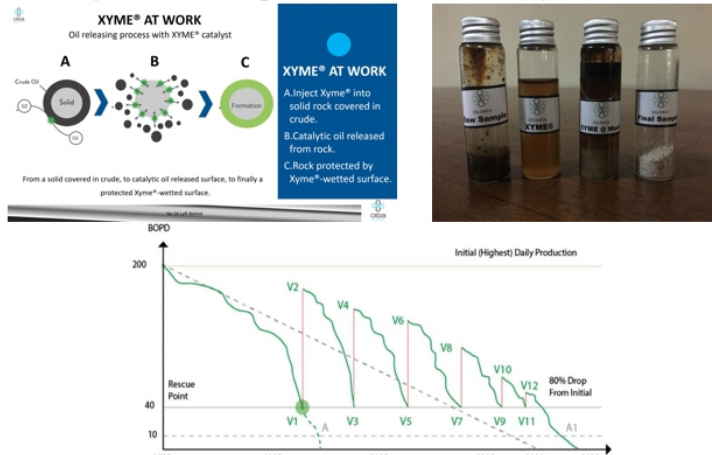


[A] THE PROBLEM:

BROWN FIELD PRODUCTION DECLINE & TUBING INTEGRITY (LEAKS) / FLUID LOSE

- Wettability is the tendency for the rock to preferentially imbibe oil, water, or both.
- Average Recovery Factors (RF) in the Niger-Delta range from 30 – 50%, leaving a significant amount of unrecoverable Oil in Place
- Globally, the overall recovery factors for combined primary and secondary recovery range between 35% and 45%.
- With uncertainties in Oil Price, operators urgently want to maximize recovery while minimizing costs and environmental impact.

- ✓ Tubing Integrity leaks are failed barriers common in the oil and gas sector.
- ✓ Types of Tubing Problems includes Leaking Casing Thread, Tubing Burst, Corrosion or casing wear and Tubing cracks
- ✓ Challenges associated with Tubing Leaks includes sustained Casing Pressure, Leaks into Formation, Loss of Circulation, Fluid Losses, Depletion of Casing Integrity, etc.



XPatch And XR-Patch

What Is Xpatch and XR-Patch:

The X-Patch provides a heavy-duty, permanent seal over splits, holes or perforations in tubing and casing while the XR-Patch is a retrievable Patch that provides a heavy-duty, permanent seal over splits, holes or perforations in tubing and casing.

Features

- It can be run on E-Line, tubing or coiled tubing and set with a pressure setting tool and set in ONE run (Xpatch), TWO runs (XR-Patch).
- It comprise a metal to metal seal, with an adjustable length, can be deployed on Either Coil Tubing (CT), E-line or Slick Line or Combination.

Benefits

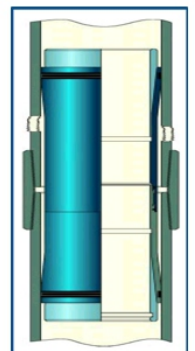
- Can be installed via coil tubing, E-line, slick line or a combination, allowing for operator flexibility and associated cost savings.
- Requires only one trip to set or retrieve on slick or Wireline; one or two trips on coil tubing.
- Live well operations can easily be tolerated with a superior sealing and anchoring system and in many cases eliminates the need for well killing operations.

Application, Deployment and Specification

- Tubing patch, Tubing and casing leak repairs, Isolation of the leak due to high casing pressure, etc.

Success Stories:

- Restoration of well casing integrity, completely isolated leak zone, was able to produce by-passed oil and increased production rate, saving client from a 3months worth of \$3,000,000 workover operation to a less than \$100,000 rigless workover operation that lasted only 1week.





XYME: Enzyme-Enhanced Oil Recovery System

What Is XYME:

Enzyme-Enhanced Oil Recovery System - the 1st Enzyme Enhanced Oil Recovery system (a protein-based non-living catalyst) that releases trapped oil from the rock surface in droplets, increases the recovery factor (RF), extends the life cycle of oil fields, and increases oil production by up to 120% to over 460%

Features

- Oil releasing catalyst, can mobile oil even with the presence of paraffin in oil field.
- Changes wettability from oil wetted or water wetted to xyme-wetted. Unaffected by adverse well conditions.
- Interfacial tension (IFT) reducers and relative permeability and recovery factor increaser.
- Biodegradable: No carbon footprint, Reservoir, environmentally and personnel friendly.

Benefits

- Large volume of extra oil production increase after each E-EOR treatment - increases oil production by up to 120% to over 460%. Enhance Oil migration. Extend the life circle of the field and increase recovery factor
- FREE ENHANCE ENERGY solution with 3 – 5 days max operational time.

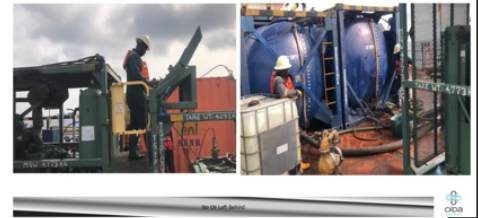
Application, Deployment and Specification

- Applicable to improve start-up well performance, mature wells with continuous decline, new wells with rapid decline, Waterflooding systems, mobilize oils of various viscosities
- Can be deployed via Bullheading or Coiled tubing. See Oida Xyme brochure for detailed Spec sheet.

Success Stories:

- Increased Oil barrels by 314%, 429% & 458% outside Nigeria and 120% in-country respectively with a deployment payback time of 1 – 3 months max and average tracking time of 18mons – 3yrs for several of our Clients – **OIDA XYME IS ABSOLUTELY FREE**

XYME DEPLOYMENT IN PROGRESS IN-COUNTRY (AGBARA)



XYME® DEPLOYMENT PRE & POST JOB SAMPLES: PHOTO GALLERY



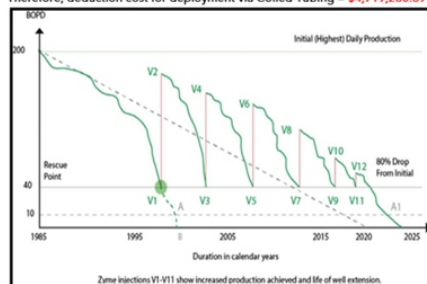
CONCLUSIONS

XYME® COST-BENEFIT

Well XXXX 059L (the same is applicable to Well XXXX 042L and 039L):

- Existing Well Production Rate = Current Production Rate (P_c): 191 BOPD
XYME® offers will increase your Total Reservoir Fluid (Water, Oil, Others) by a MINIMUM of 10% increase, with an indefinite maximum increase as we've recorded success stories from 80% and above (460%) increases.
- Therefore Well Production after Xyme® Deployment = Xyme Effect Production (P_{ex}) = $80\% \times 191$ BOPD
- Production Gain from Xyme® = Production Gain (P_g) = 152.8 BOPD
- Baseline Xyme® Cost of Deployment in well AGBD 059L (C_x) = \$251,710.61
- Revenue from Production Gain/day (@\$89.13/Bbl - June 27, 2024 Oil Price) (R_p) = \$89.13 x 152.8 BOPD = \$13,619.1
- Payback on Xyme® treatment (P_{Bx}) via Coiled Tubing (CT): \$251,710.61 ÷ \$13,619.1/Day = 18.5 Days (~ 19 Days or by 21/07/2024)
- Annual net cumulative production gain (Xyme® P_{gx}): \$13,619.1/Day x 365 Days = \$4,970,971.5.

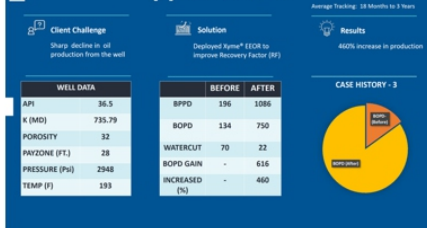
Therefore, deduction cost for deployment via Coiled Tubing = \$4,719,260.89



[D] CASE HISTORY-1

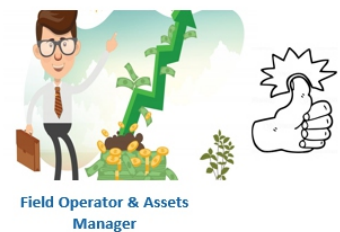


[D] CASE HISTORY-3



✓CHEAPER, BETTER, FASTER & SMARTER SOLUTIONS

No Oil Left Behind



Field Operator & Assets Manager

12	TITLE: PROPOSAL FOR XYME DEPLOYMENT - ENHANCED OIL RECOVERY	Date: 24 July, 2024
	Prepared by: Dorcas-Jimmy Ofo Eze	Reviewed by: Nsofor Alabudu
	Oida Energy, Port Harcourt, Nigeria	CONFIDENTIAL INFORMATION

CONCLUSIONS

[D] XPATCH: Case History #1

Who was the Client?	What was the Challenge?	Solution Offered	Business Impact
Chevron	Gross reduction in daily production as leaks were detected at 87%, 115% and 178%.	The X-PATCH was deployed to isolate the leaks in 3 runs	The well commenced production immediately and the casing integrity was restored

[D] XPATCH: Case History #2

Who was the Client?	What was the Challenge?	Solution Offered	Business Impact
Ecrist	High Casing Pressure due to Tubing damage	The X-PATCH was deployed to isolate the leak in 1 run	The well commenced production and the casing integrity was restored

[D] XRPATCH: CASE HISTORY #3

Client Challenge		Solution		Results
Sharp decline in oil production from the well		Deployed XRPATCH to isolate leak and continue production		500 % increase in production

WELL DATA		BEFORE		AFTER	
LOCATION	LAND	SPPD	210	1263	
TUBING SIZE	4-1/2"	BOFD	200	1200	
LEAK DEPTH	12,000 FT	WATERCUT	5%	5%	
PAVZONE (FT.)	28 FT	BOFD GAIN	-	1200	
CASING PRESS.	600 PSI	INCREASED (%)	-	500%	
XRPATCH LENGTH	20 FT				



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About Oida Energy (Oidata)

- ❖ Leader in Rigless Workover/ Well Intervention Services with over 1000+ rigless workovers executed.
- ❖ Leader in Tubing-Patch technology with > 100 water shut-off projects deployed.
- ❖ Leader in Marginal/Brown field development: Saltpond field, Ghana (GNPC); Ibigwe Field (Waltersmith); Ofa field (Independent Energy); Ke Field (Del-Sigma); Ebendo Field (Energia/Oando JV) etc.
- ❖ Oidata holds the world record in the Shell group globally for longest single-run multizone TCP/DST interval perforated.

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