PERFORM

AIQ

DRILLREP

PERFORM WITH **AIQ**

POWERING A **SUSTAINABLE** TOMORROW

www.aiqintelligence.ae

THE CHALLENGE

The preparation of DDR (Daily Drilling Reports) has historically been conducted manually by a Drilling Supervisor or his equivalent, which can be a time-consuming and laborious process, and is also subject to human error.

The narrative report, which comprises 350+ codes and sub-codes for specific activities included within the Drilling Operation Coding System, can be difficult to manage, leading to inaccurate or wrong information being gathered.

DDR sample

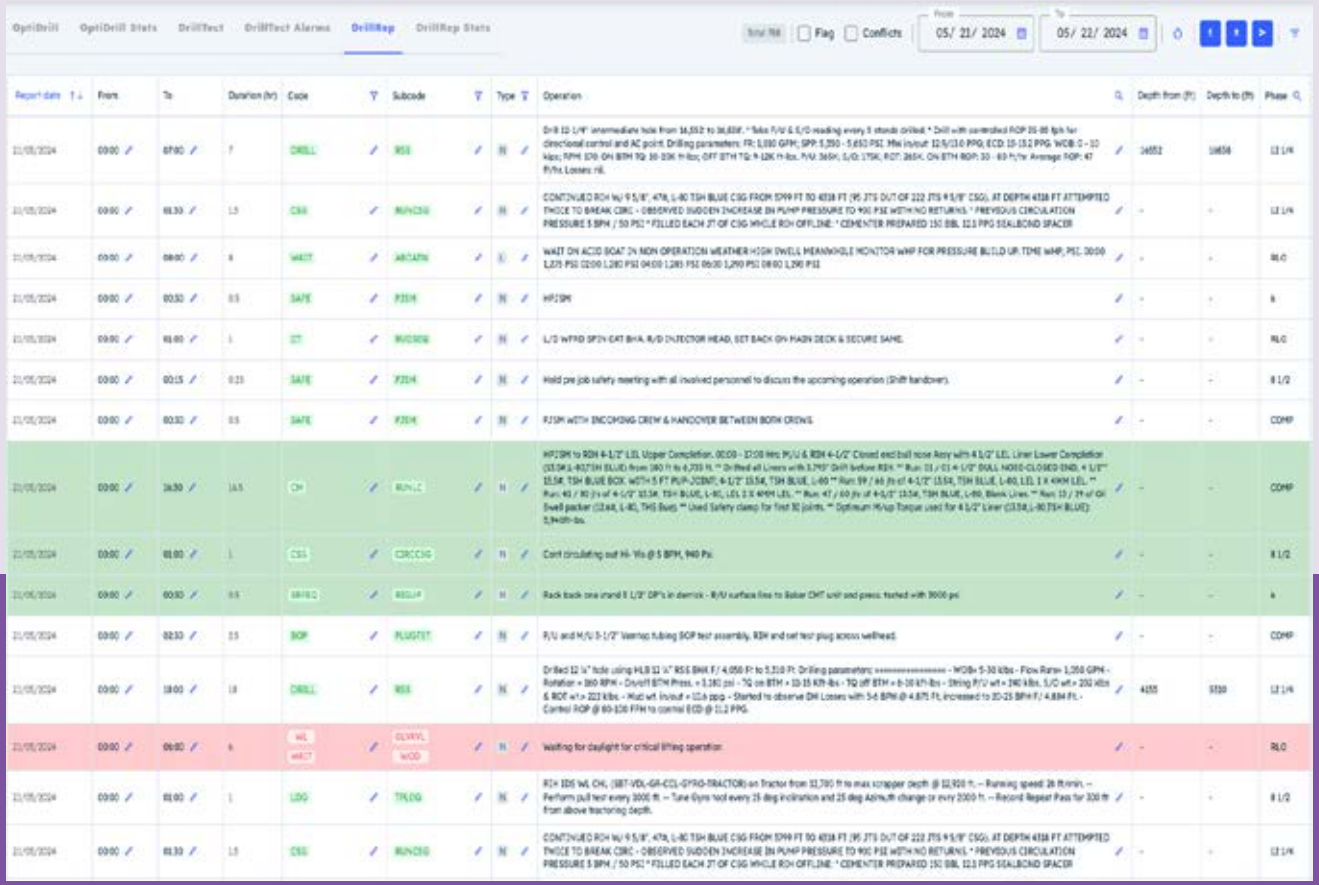
Activity Summary			Drill to 6148'. Circ. Sweep, Wiper tripto 3530', Adjustbrakes. TIH. Drill to 6148'. Change seat in mud pump #1.Drill to 7211.		
Activity Planned			Drill to 1800hrs. CBU. Wiper trip to 6022', Drilling head.		
FROM	**TO**	**HRS**	**ACTIVITY**	**DEPTH**	**HOURLY COMMENTS**
6:00	8:00	2:00	Drilling	6,148'	Drilling and sliding to stay on directional plan from 6022 ft. to 6148 ft. For 126'ft. 165 SPM, 700 GPM, 3000 PSI, 70 RPM, 1200-3500 ft/lbs torque.
8:00	9:00	1:00	Circulating	6,148'	Drilling and sliding to stay on directional plan from 6022 ft. to 6148 ft. For 126'ft. 165 SPM, 700 GPM, 3000 PSI, 70 RPM, 1200-3500 ft/lbs torque.
9:00	10:30	1:50	Tripping	6,148'	Pump slug, short trip from 6148 ft. tp 3430 ft. 30-40k drag in sports. Work back down through spots and excessive drag gone.
10:30	11:00	0:50	Rig Service	6,148'	Adjust brakes on drawworks, rig service.
11:00	12:30	1:50	Tripping	6,148'	Trip back in hole from 3430 ft to 6148 ft. Hole taking proper fillups.
12:30	14:00	1:50	Drilling	6,294'	Drilling and sliding to stay on directional plan from 6148 ft. to 6294 ft. For 146' ft. 165 SPM, 691 GPM, 3200 PSI, 70 RPM, 2000-5500 ft/lbs torque. Max gas after short trip 70 units.
14:00	15:30	1:50	Rig Repairs	6,294'	Change seat and valve on #1 mud pump. Discharge valve between pumps was leaking preventing pumping with #2 mud pump. Changed paddle and rubber on discharge valve.
	6:00	14:50	Drilling	7,211'	Drilling and sliding to stay on directional plan from 6294 ft. to 7211 ft. For 917' ft. 165 SPM, 691 GPM, 3200 PSI, 70 RPM, 2000-5500 ft/lbs torque.
	Total Hrs: 24.00		**Job Total Hrs: 408.00**		

THE SOLUTION

DRILLREP is a web-based application that helps improve the quality of DDR reporting using deep AI and Machine Learning technology to scan the reported data and automatically analyze the written description of drilling activities. It then suggests code and sub-code allocations, based on analysis of accurate historical DDR data.

With DDRs requiring completion daily, DrillRep drastically improves the ease and accuracy of reporting, simplifying the process and turning the report into a dynamic tool that can help drive greater operational efficiencies.

AI-DDR:
AN ONLINE TOOL TO IMPROVE THE QUALITY OF DDR REPORTING USING DEEP LEARNING TECHNOLOGY



VALUE & BENEFITS

DRILLREP

PERFORM WITH **AIQ**

> Drastically improves the ease and accuracy of reporting, creating a dynamic tool that can help drive greater operational efficiencies

ACCURACY

Increases accuracy of reporting, while simplifying the process for individuals

EFFICIENCY MAXIMIZATION

Reduces the time required for Quality Control/Quality Assurance-related activities

REDUCE OPEX COSTS

Identifies operational issues early, allowing for quicker remediation, which can reduce OPEX costs

REDUCE HUMAN ERROR

Assigns correct codes and sub-codes; reducing human error

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DISCLAIMER

This booklet contains numerical data that has been sourced from our esteemed clients. It is important to note that these figures are provided in the context of their respective business operations and have been shared with us for the purpose of this booklet.

Please be aware that client-sourced data can be subject to various factors that may influence its interpretation.