

Egypt: MAGNOSTAR Tools Clear Way for Completion in Offshore Milling Operation

“A total of 156 kg (343 lb) of rough swarf was recovered by the 9 5/8-in. MAGNOSTAR* tool assemblies. The company man was very impressed with the volume of metallic debris recovered on surface.”

Douglas Crouch, Tool Technical Supervisor, M-I SWACO

Well Information

Location	Offshore Alexandria, Egypt
Date	July 2010
Mud weight	11.3 – 11.5 lb/gal (1.36 – 1.38 sg)
Casing size	10 3/4-in. and 9 5/8-in.
Milling window depth	1525 m (5002 ft)
Tools utilized	6 x 9 5/8-in. MAGNOSTAR Magnets

The Situation

After setting a whipstock, the operator wanted to sidetrack a well with a window milling operation. It was critical to collect the metal debris generated during this milling operation, thereby preventing it from being strung out along the hole. Removing all the debris was essential for the success of future runs to install the re-completion equipment.

The Solution

The M-I SWACO SPECIALIZED TOOLS group recommended a specially designed milling assembly made up of the window mill, heavy-weight drill pipe, drill collars, and six M-I SWACO MAGNOSTAR magnets. The MAGNOSTAR magnetic tools are high-capacity swarf-collection assemblies, designed to capture ferrous material inside its blades, thus preventing it from being dislodged from the tool during high circulation rates and tripping out of the hole.

The Results

The MAGNOSTAR magnets were run in two assemblies of three tools each. The two assemblies collected a combined 156 kg (343 lb) of debris, thus clearing a path for the future assembly of the completion hardware. The company representative on board was very satisfied with the performance of the tools compared to previous equipment used on similar operations.

The Details

Once the window was successfully milled, the first milling assembly was pulled out of the hole. When the assembly reached the surface, it was inspected for damage and cleaned. The total weight of all debris collected on the first three tools was 99 kg (218 lb). The second assembly of MAGNOSTAR tools was also inspected for damage, cleaned, and the debris weighed. The lower assembly collected 57 kg (125 lb) of metal, making a combined total of 156 kg (343 lb).

Assembly	Model Number	Field Recovery	Type of Debris	Run Type
1	3x MSTAR 103	99 kg (218 lb)	Metal (Dry)	Window Milling
2	3x MSTAR 103	57 kg (125 lb)	Metal (Dry)	Window Milling
	Total	156 kg (343 lb)		



Questions? We'll be glad to answer them.

If you'd like to know more about the SPECIALIZED TOOLS product line and how it's performing for our other customers, please call the M-I SWACO office nearest you.



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