



# MARSHALL

SOLUTIONS INTERNATIONAL

A Solid Control Company.



## History Summary

Marshall Parent Company was founded in 1995

In 2014, Marshall CM - Partners started Manufacturing Test Screen under API RP13C

In 2017, we delivered over 10000 panels of screen

To give clients better product and services, we did the test under API RP13C again

Marshall CM - have collaborated with clients in over 20 countries.

2016, Marshall CM - got API certification for Shaker Screens.

In 2019, we delivered about 20000 panels of screen

Marshall CM - was established in 2012



SCREENS AND RELATED ITEMS

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For Derrick

For NOV Brandt

For M-I SWACO

What is API RP13C

For screens clamping

For screens repair

## Hyperpool

For Hyperpool

## FLC500

For FLC503 | FLC504 | FLC513 | FLC514

## Dual Pool 600

For DP 616 | DP 626 | DP 618 | DP 628

## Replacement Shaker Screens for Derrick

### FLC2000/48x30

For FLC2000-3 | FLC2000-4 | FLC with AWD  
FLC Plus | HI-G Dryer | Cascade 2000

### Polyweb

For Stack Sizer

| Model \ Specs | Marshal model | API RP13C Designation | API D100 Cut point | Constructure | Surface    |
|---------------|---------------|-----------------------|--------------------|--------------|------------|
| Hyperpool     | MARHYP        | API 40 ~ API325       | 415.2~48.6         | Metal        | Corrugated |
| FLC500        | MARD5         | API 40 ~ API325       | 415.2~48.6         | Metal        | Corrugated |
| FLC500        | MARD5P        | API 40 ~ API325       | 415.2~48.6         | Metal        | Fla        |
| DP600         | MARD6         | API 40 ~ API325       | 415.2~48.6         | Metal        | Corrugated |
| FLC2000       | MARD48        | API 40 ~ API325       | 415.2~48.6         | Metal        | Corrugated |
| FLC2000       | MARD48P       | API 40 ~ API325       | 415.2~48.6         | Metal        | Fla        |
| Polyweb       | MARPU         |                       | 75~1000            | Polyurethane | Fla        |



## Cobra

For All Cobra Families | LCM | ATL100

## VSM300

For VSM300

# Replacement Shaker Screens for NOV Brandt

## D380

Brandt D235/285/380

For D235 | 285 | 380



| Model              | Specs | Marshall Model | API RP13C Designation | API D100 Cut point | Constructure    | Surface    |
|--------------------|-------|----------------|-----------------------|--------------------|-----------------|------------|
| Cobra              |       | MARMDV         | API 40 ~ API325       | 415.2~48.6         | Metal           | Corrugated |
| King Cobra & Venom |       | MARKC          | API 40 ~ API325       | 415.2~48.6         | Metal/Composite | Flat       |
| D380               |       | MARDP3         | API 40 ~ API325       | 415.2~48.6         | Metal           | Flat       |
| VSM300-Scalping    |       | MARV3S         | API 40 - API325       | 415.2-48.6         | Metal/Composite | Flat       |
| VSM300-Primary     |       | MARV3          | API 40 ~ API325       | 415.2~48.6         | Metal/Composite | Flat       |
| VSM300-Secondary   |       | MARV3D         | API 40 ~ API325       | 415.2~48.6         | Metal           | Flat       |

\*Cobra series panel here are compatible with VNM

## Replacement Shaker Screens for M-I SWACO

### Mongoose

For Mongoose PT I Mongoose Pro I Meerkat

### BEM 6

For BEM650

### MD

For MD-2 I MD-3

### ALS

For ALS



| Model    | Specs | AIPU Model | API RP13C Designation | API D100 Cut point | Constructure    | Surface |
|----------|-------|------------|-----------------------|--------------------|-----------------|---------|
| Mongoose |       | MARMNG     | API 40 ~ API325       | 415.2~48.6         | Metal/Composite | Flat    |
| Meerkat  |       | MARMNG     | API 40 ~ API325       | 415.2~48.6         | Metal/Composite | Flat    |
| MD       |       | MARMMD     | API 40 ~ API325       | 415.2~48.6         | Composite       | Flat    |
| BEM      |       | MARBM6     | API 40 ~ API325       | 415.2~48.6         | Metal           | Flat    |
| ALS      |       | MARAL      | API 40 ~ API325       | 415.2~48.6         | Metal/Plastic   | Flat    |

Marshall provides all right fit replacement screen panels not the OEM ones.

M-I SWACO, Mongoose, MD, Meerkat, BEM, and ALS are trademarks and/or registered trademarks of M-I L.L. C



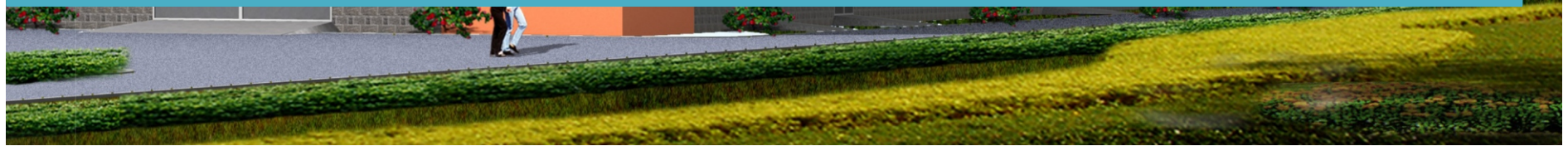
## WHAT IS API RP13C? WHY DO WE TEST SCREENS UNDER IT?

A physical testing and labeling procedure for shaker screens. To be API RP 13C compliant, a screen must be tested and labeled in accordance with this recommended practice. Internationally, API RP 13C is known as ISO 13501.

The new procedure is a revision of the previous API RP 13E, which was based on optical measurements of the screen opening using a microscope and computer analysis. Under API RP 13E, screen designations were based on individual manufacturer test methods which produced inconsistent labeling

All screens supplied by MARSHALL manufacturing facilities conform to API RP 13C, the internationally standardized and recommended practice for testing and labeling of shale shaker screens. The American Petroleum Institute (API) RP 13C describes and defines, without bias, the maximum screen opening sizes and flow potential in a reproducible, consistent manner.

Our screens undergo the standardized API RP 13C dry aluminum oxide sieve method that correlates particle sizes with ASTM test sieves to define the maximum particle size (d100) cut points. These cut points are denoted with an equivalent API number. The test defines the cut point as the particle size in which 100% of the particles larger than the d100 separation are retained by the test screen.



### Shaker Screen Repair Plugs



Shaker screen repair plugs can be used to repair broken screen quickly. Such as the Cobra families screen, Mongoose series screen and so on. There are rectangle shape, hexagonal shape and the square shape mostly used. Our plugs suit for famous brand shaker screen, Maeshall steel framed pretensioned screen. Also, the plugs can be customized according to your demand.

Step 1: Identify the damaged panel. The plugs can be fitted into any location within the frame except those openings adjacent to the shade side walls.



Step 2: Lay the screen on a flat surface (a bench or the floor, for example) in an area free of obstructions. Remove surface cloth for a complete grating cell.



Step 3: Place the plug above the damaged panel with the hollow section facing down. Push or press the plug in as far as it goes.

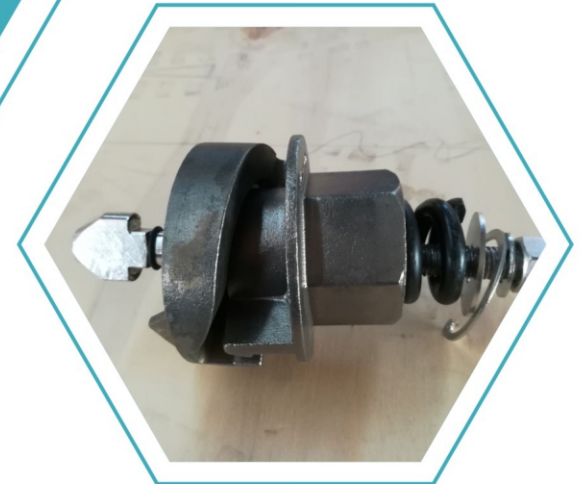
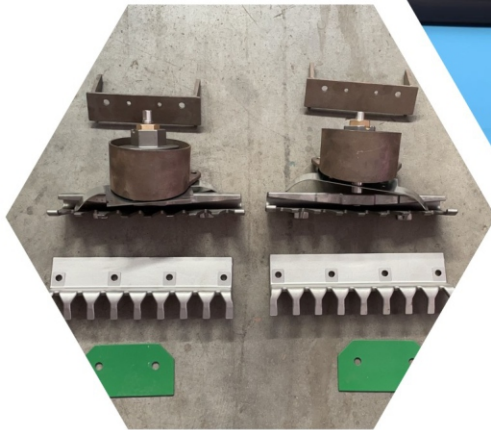
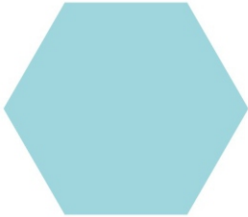


Step 4: Turn the screen over and check if the plug was inserted tight enough by turning it over times.



Step 5: If the plug does not insert into place, use a hammer or a mallet to tap with another plug till it's at a proper place.

## Clamping for Shaker Screen





## D100 Separation (API RP13C-ISO 13501)

| D100 Cut Point(μm)   | API Screen Number | D100 Cut Point (μm) | API Screen Number |
|----------------------|-------------------|---------------------|-------------------|
| > 3 075,0 to 3 675,0 | API 6             | > 231,0 to 275,0    | API 60            |
| > 2 580,0 to 3 075,0 | API 7             | > 196,0 to 231,0    | API 70            |
| > 2 180,0 to 2 580,0 | API 8             | > 165,0 to 196,0    | API 80            |
| > 1 850,0 to 2 180,0 | API 10            | > 137,5 to 165,0    | API 100           |
| > 1 550,0 to 1 850,0 | API 12            | > 116,5 to 137,5    | API 120           |
| > 1 290 to 1 550,0   | API 14            | > 98,0 to 116,5     | API 140           |
| > 1 090 to 1 290,0   | API 16            | > 82,5 to 98,0      | API 170           |
| > 925,0 to 1 090,0   | API 18            | > 69,0 to 82,5      | API 200           |
| > 780,0 to 925,0     | API 20            | > 58,0 to 69,0      | API 230           |
| > 655,0 to 780,0     | API 25            | > 49,0 to 58,0      | API 270           |
| > 550,0 to 655,0     | API 30            | > 41,5 to 49,0      | API 325           |
| > 462,5 to 550,0     | API 35            | > 35,0 to 41,5      | API 400           |
| > 390,0 to 462,5     | API 40            | > 28,5 to 35,0      | API 450           |
| > 327,5 to 390,0     | API 45            | > 22,5 to 28,5      | API 500           |
| > 275,0 to 327,5     | API 50            | > 18,5 to 22,5      | API 635           |



## API Designation Screens Available at Marshall Solids Control

| Label of Screen Sample Tested | API Designation | Cut Point (D100) | Conductance(Kd/mm) |
|-------------------------------|-----------------|------------------|--------------------|
| 50-MESH-APAXC50               | API 40          | 415.2            | 9.54               |
| 80-MESH-APAXC80               | API 60          | 235.3            | 6.01               |
| EKSFH-A080                    | API 70          | 204.5            | 2.96               |
| 100-MESH-APAXC100             | API 80          | 190.4            | 3.71               |
| EKSFH-A100                    | API 100         | 163.2            | 2.59               |
| 120-MESH-APAXC120             | API 120         | 129.2            | 2.69               |
| EKSFH-A120                    | API 120         | 116.6            | 1.85               |
| EKSFH-A140                    | API 140         | 102.2            | 1.76               |
| EKSFH-A170                    | API 170         | 86               | 1.43               |
| EKSFH-A200                    | API 200         | 82               | 0.94               |
| EKSCP5-A230                   | API 200         | 70.5             | 0.88               |
| EKSFH-A230                    | API 230         | 69               | 0.87               |
| EKSCP5-A270                   | API 270         | 55.7             | 0.77               |
| EKSFH-A325                    | API 325         | 47.9             | 0.6                |

## OEM Shaker Screen for Marshall

### MARMG

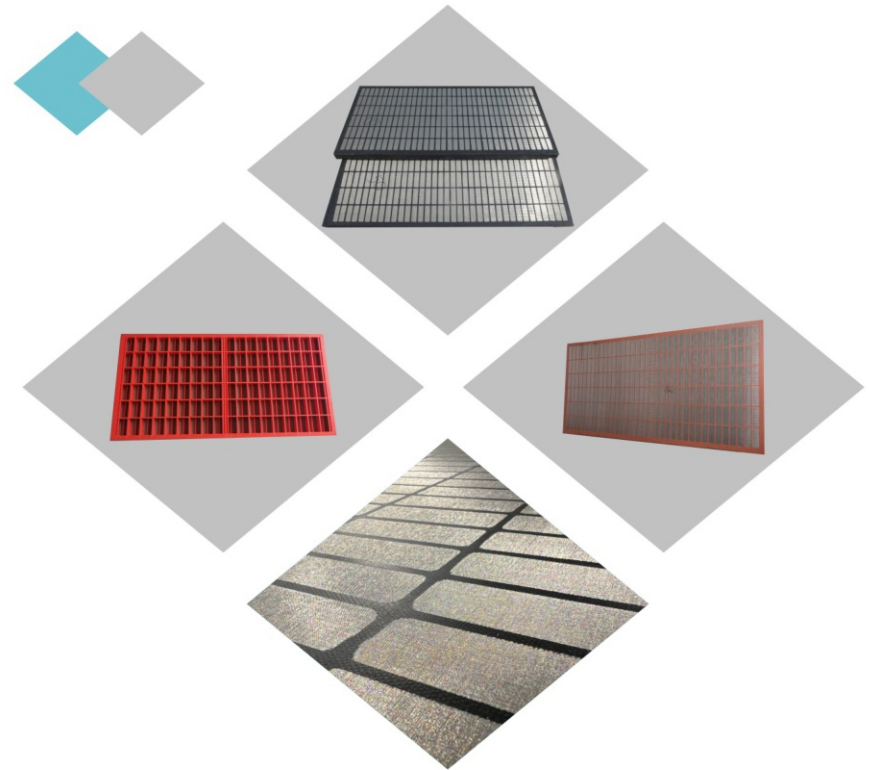
For Hunter-MG3 | Hunter-MG4 | Hunter-MG Cleaner I ...

### MARMN

For Hunter-Mini | Hunter-Mini Cleaner I ...

### MARHD

For Hunter-D3 | Hunter-D4 | Hunter-D Cleaner I...



| Model | Specs | API RP13C Designation | API D100 Cut point | Constructure    | Surface         |
|-------|-------|-----------------------|--------------------|-----------------|-----------------|
| MARMG |       | API 40 ~ API325       | 415.2~48.6         | Metal/Composite | Flat/Corrugated |
| MARHD |       | API 40 ~ API325       | 415.2~48.6         | Metal           | Flat            |
| MARMN |       | API 40 ~ API325       | 415.2~48.6         | Metal           | Flat            |



25 YEARS EXPERIENCE – HIGH QUALITY – API CERTIFICATE

**Quality and Services is Our Priority**

## **Marshall Main Products**

### **Flat Shaker Screen**

Derrick FLC2000, Derrick FLC500, Derrick FLC313M, SWACO

01



### **Pyramid Shaker Screen**

Derrick FLC2000, Derrick FLC500, Derrick Hyperpool

02



03

### **Composite Frame Screen**

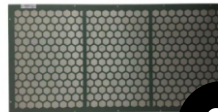
Swaco Mongoose, MD-3, NOV King Cobra, VSM300, NOV D-380, FSI, Mamut



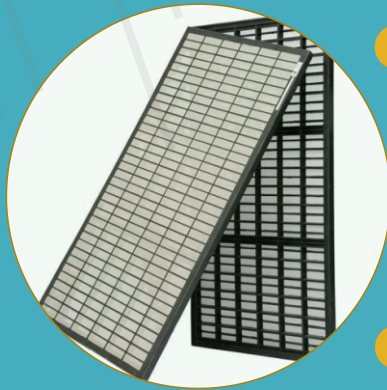
04

### **Steel Frame Screen**

Swaco Mongoose, Brandt King Cobra, Kemtron 48 Series, Brandt VSM300



## What Will We Bring To You?

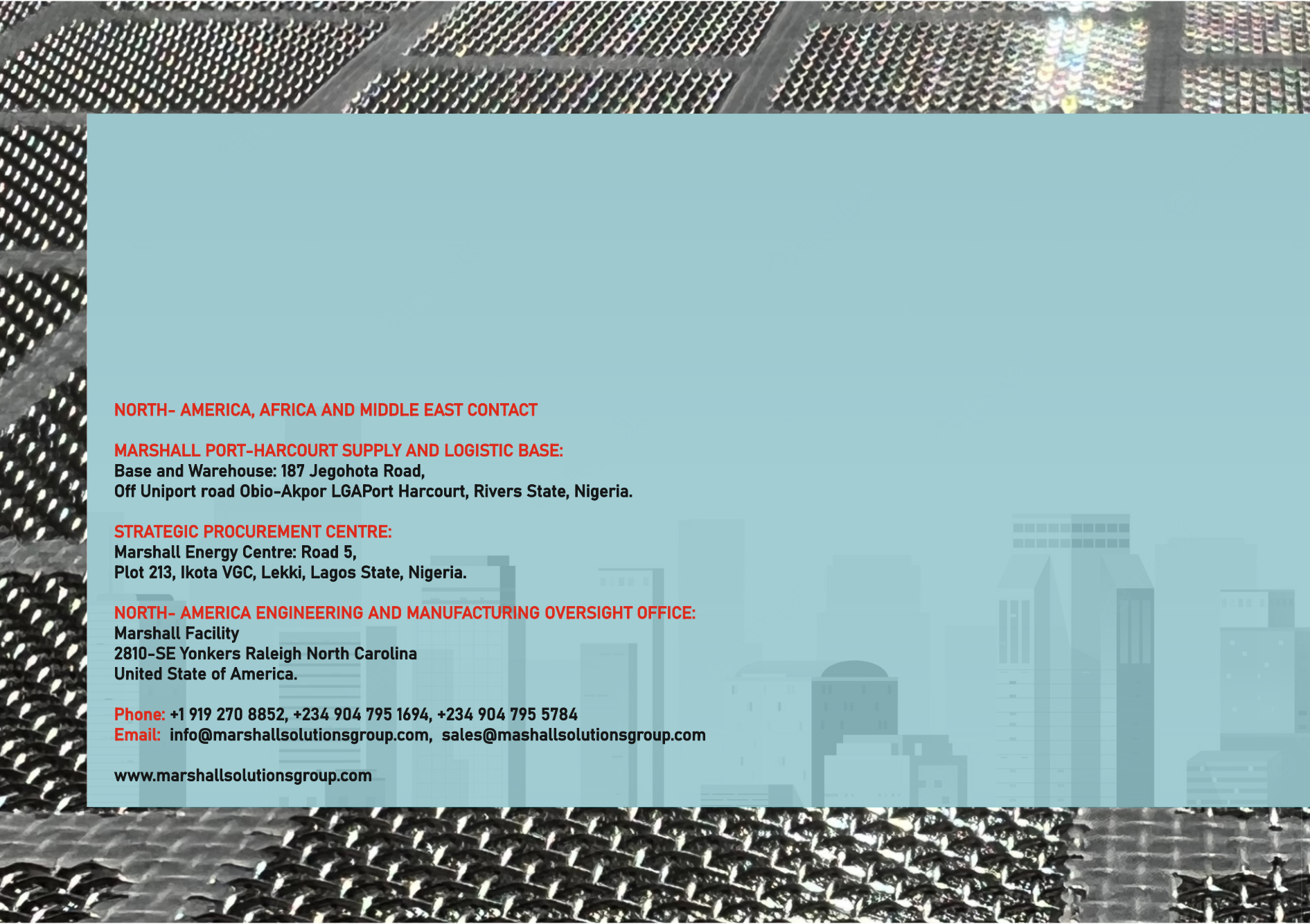


- High Opinion
- Reduce Costs
- Different Shale Shaker Screen Options
- Improve Work Efficiency

### Remarks:

- 1 Derrick and FLC and Pyramid are trade marks of Derrick Corporation
- 2 Brandt and NOV are trade marks of NationOilwell Varco
- 3 MI-Swaco and Mongoose are trade marks of Schlumberger





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