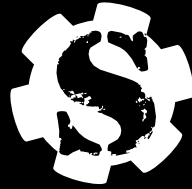


OUR EXPERIENCE IS YOUR SUCCESS



CASE HISTORY

A wide-angle photograph of an oil rig on a dark sea at sunset. The sky is filled with dramatic, dark blue and purple clouds, with a bright orange and red glow along the horizon. The rig is silhouetted against the horizon.

*Case histories of  
local manufactured PDC bits*



## 12 1/4" KDC657SX SHOE TO SHOE RUN

Country:.....**Kazakhstan**  
 Area:.....**Atyrau**  
 Field:.....**Asaniketken**

### OBJECTIVES:

- Drill from shoe to shoe in one bit run
- Reduce Drilling time
- Reduce trip time



### DESIGN FEATURES:

- Steel body
- 5 blades
- 19 mm Premium Plus PDC Cutters
- Back Up Premium Plus PDC Cutters

#### Well #1

3 x 12 1/4" tricone  
 Total meters drilled = 1348 meters  
 Total Drilling Time = 173 hours  
 ROP = 7.8 m/hr

#### Well #2

1 x 12 1/4" KDC657SX  
 Total meters drilled = 1252 meters  
 Total Drilling Time = 98.4 hours  
 ROP = 12.7 m/hr

## PDC WELL DRILLS 3 TIMES FASTER THEN TRICONE WELL

Country:.....**Kazakhstan**  
 Area:.....**Aktobe**  
 Field:.....**Zharkamys**

### OBJECTIVES:

- Reduce drilling and trip time

### RESULT:

- Total drilling savings on 800 meter shallow well is **US\$60,000.00**

#### Tricone well #1

1 x 12 1/4" tricone till 150m  
 2 x 8 1/2" tricones till 800m  
 Total Drilling Time = 87.1 hours  
 Total Trip Time = 13 hours  
 Rig cost = US\$1,100.00  
 Total bit cost = US\$20,000.00

#### PDC well #2

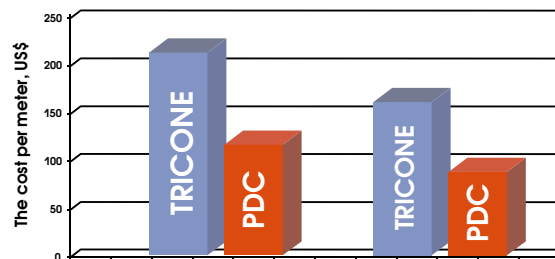
1 x 12 1/4" KDC - PDC bit till 150m  
 1 x 8 1/2" KDC - PDC bit till 800m  
 Total Drilling Time = 27.8 hours  
 Total Trip Time = 8 hours  
 Rig cost = US\$1,100.00  
 Total bit cost = US\$30,000.00

#### 12 1/4"

12 1/4" hole, cost per meter tricone = **US\$205** and PDC bits = **US\$107**

#### 8 1/2"

8 1/2" hole, cost per meter tricone = **US\$153** and PDC bits = **US\$82**



## 8 1/2" KDC657MX DRILLS FROM CASING SHOE TO TD ON STEERABLE BHA

Country:.....**Kazakhstan**  
 Area:.....**Aktobe**  
 Field:.....**Zharkamys West-1**

### OBJECTIVES:

- Drill with PDC from casing shoe to TD
- Build angle from 0 - 12 degrees
- Drill at high ROP

### DESIGN FEATURES:

- 19 mm Premium Plus PDC cutters
- 5 blades
- Back up Premium Plus PDC cutters
- Matrix body



### RESULT:

- KDC657MX achieved the objective.
- No toolface problems were seen
- The bit showed good directional performance in both rotary and steerable mode
- No problems with drilling the kickoff section

**Drilled in one bit run the total of 1820 meters at 12.8 m/hr and build from 0 - 12 degrees.**

## 8 1/2" KDC666M DRILLED HARD ROCKS

Country:.....**Kazakhstan**  
 Area:.....**Mangystau**  
 Field:.....**West Zhetybai J-58**

### OBJECTIVES:

- Drill with PDC from casing shoe to TD
- Reduce Drilling and Trip time

### DESIGN FEATURES:

- 19 mm Premium Plus PDC cutters
- 6 blades
- 6 nozzles
- Matrix body

### CHALLENGES:

- Hard Layers
- Lime Dolomite
- Limestone
- Dolomite

### RESULT: Well J-55

8 1/2" KDC566M

Total meters drilled = 1324,5 meters

Total Drilling Time = 150,4 hours

ROP = 8,8 m/hr

### Well J-58

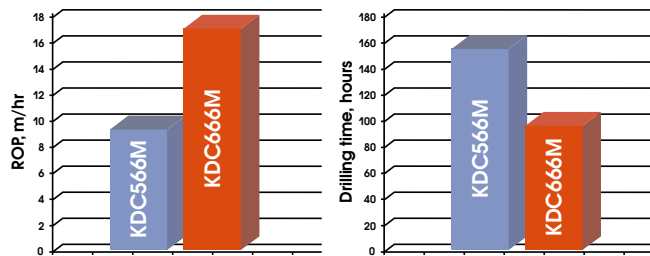
8 1/2" KDC666M

Total meters drilled = 1534 meters

Total Drilling Time = 93 hours

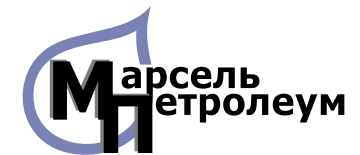
ROP = 16,5 m/hr

### 12 1/4" 8 1/2"



KDC666M achieved the objective

## OUR CUSTOMERS





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