Scimitar Production Egypt Ltd
Purchase Requisition

Date:	04/06/2026
PR#:	00328 2026
Requested by:	Mohamed Elnefaily
Department:	Workover & Completion

Type Of Pr:	Material	Lead Time:	1-Aug-2026	Emergency %	Planned
Source:	Genric	Status:	Stock	Assets Movable, Stock,Generic, Materials Clasification	
Category:	Non Critical	Budget:	In Budget		
Delivery Urgency:	Standard	Currency:	LE		

Sr	Qty	Unit	Description	Item Code	Proposed Supplier	Movable	Stock	General
1	5	EA	HEAVY OIL PUMP 89-70/38TH5.6/1.2-0.9/5.1PZ (STROKE LENGTH: 4M) 2 ¾" 1 ½" FOR 3.5" TBG WITH CODE 30-275/150PF			☐	☐	☐
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						☐	☐	☐

Justification	WORKOVER OPERATION	Budget Line	WELLHEAD AND DOWN HOLE SPARE PARTS	Signture	
Delay Consequences	DELAY TO PUT WELL IN OPERATION	Contingency Plan	USE ANOTHER TYPE FROM STOCK		

Prepared by WHs Section Head		Warehouse And Inventory Mgr		Field General Manager Approval	
Signature & Date	M.Eltayeb 4/6/2026	Signature & Date	Moh 3/6/2026	Signature & Date	Moh. Elnefaily 4/6/2026

	: 31612026	**Scimitar Production Egypt Ltd** **Materials Requisition**	Priority	: ☑ Standard ☐ Urgent	
..No	:		Est. Cost.	:	
Requested by	: Mohamed Elmefaily		CUR.	: ☑ USD ☐ EGP ☐ EURO	
Department	: Workover		AFE# :		

#	QTY	U/I	Description	M.E.S.C. (Item Code)	Proposed Suppliier
1	5	EA	89-70138TH5.6/1.2-915.1PZ (Stroke length: 4m)		
2			2 3/4" 1 1/2" for 3.5' TBG with code 30-275/150PF.		
3			-See attach Technical data.		
4					
5					
6					
7					
8					
9					
10					
11					
12					

Budget : ☑ Yes: ☐ No Use For Workover operations.

STATUS : ☐ DIRECT CHARG ☐ NON STOCK ☑ STOCK

Requested by		Field Manager Approval
Signature & Date : M. Elmefaily 31612026		Signature & Date : m.h. Elkhoudry 3/6/2026

5/8/2026

Scimitar Production Egypt Ltd

PR's Justification Form

PR # (328/2026)

Department

Workover

Category

☐ Critical ☑ Noncritical

Source.

☐ Solo ☒ Generic

Whs Balances & Consumption.

Line Item#	#1	#2	#3	#4	#5	#6	#7	#8	#9	#10	#11	#12
C. Balance	0											
Consumption	0											

Delivery Urgency.

☐ emergency ☐ urgent ☑ standard

(Lead Time: 01 /08/2026)

Justification:
Workover operations.

☑ Budget ☐ Out of budget

Budget Line:
Wellhead and downhole spare parts.

Delay Consequences.

Delay to put well in production.

Contingency Plan.

Use another type from stock.

Minimum Accepted Quantity

Line Item#	#1	#2	#3	#4	#5	#6	#7	#8	#9	#10	#11	#12
Qty need	5											

Department HS/Mgr.	Groupe Mgr.	Warehouse Mgr.	Field general Mgr.
	M. Elmefaily	Mohd	Moh. Elkelandy 5/8/2026

Special Pump-Hydraulic Feedback Pump

The hydraulic feedback pump designed by our company can exploit crude oil with viscosity > 4000mpa*s.

Characteristics:

The upper and lower barrels and the upper and lower plungers are connected in series connection to form a sealed pump cavity. The oil inlet valve is only installed on the plunger to achieve the purpose of closing the upper traveling valve in the down stroke and achieving the purpose of hydraulic feedback force.

The pump has no standing valve, no oil drain device can be installed downhole. It can be used for down-hole testing and steam injection thermal recovery without moving tubing string.

The selection of fittings materials, various heat treatment processes and surface treatment processes can be applied to meet the requirements of well conditions for product strength, corrosion resistance and wear resistance.

Product Specification:

Tubing Size	2-7/8"	3-1/2"	3-1/2"
Pump	2 1/4"-1 1/2"	2 3/4"-1 1/2"	2 3/4"-1 3/4"
Barrel OD	3.625"	4.500"	4.500"
Sucker Rod thread	3/4"	7/8"	7/8"
Connecting Tubing Thread	2-7/8"-8EU	3-1/2"-8EU	3-1/2"-8EU
Code	25-225/150Y	30-275/150Y	30-275/175YFK

Displacement:

The calculation formula of displacement is as follows:

$$P = C \times S \times N$$

P: Daily displacement, BPD;

S: Stroke length, in;

N: Frequency of strokes per minute, times/min;

C: Pump constant, as follows:

Pump Diameter	2 1/4"-1 1/2"	2 3/4"-1 1/2"	2 3/4"-1 3/4"
Pump Constant	0.327	0.618	0.524

Special Pump-Eccentric Pump

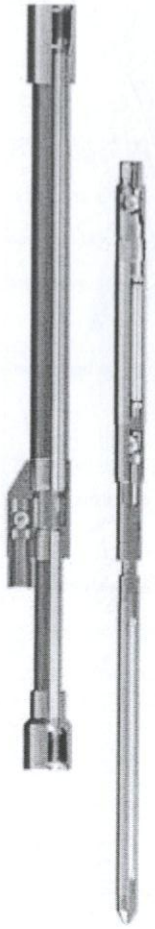
The eccentric pump designed by our company can exploit crude oil with viscosity > 4000mpa*s.

Characteristic:

The upper and lower barrels and the upper and lower plungers are connected in series connection to form a sealed pump cavity. The oil inlet valve is set at the side of the pump body. During the down stroke, the upper plunger oil outlet valve is closed to achieve the purpose of hydraulic feedback force.

The pump does not need to be installed with a drain device, the sucker rod can be lifted for downhole testing, steam injection thermal recovery and oil drain operations.

The selection of fittings materials, various heat treatment processes and surface treatment processes can be applied to meet the requirements of well conditions for product strength, corrosion resistance and wear resistance.



Product Specification:

Tubing Size	2-7/8"	3-1/2"	3-1/2"
Pump	2 1/4"-1 1/2"	2 3/4"-1 1/2"	2 3/4"-1 3/4"
Barrel OD	4.500"	5.250"	5.250"
Sucker Rod thread	3/4"	7/8"	7/8"
Connecting Tubing Thread	2-7/8"-8EU	3-1/2"-8EU	3-1/2"-8EU
Code	25-225/150PF	30-275/150PF	30-275/175PF

Displacement:

The calculation formula of displacement is as follows:

$$P = C \times S \times N$$

P: Daily displacement, BPD;

S: Stroke length, in;

N: Frequency of strokes per minute, times/min;

C: Pump constant, as follows:

Pump Diameter	2 1/4"-1	2 3/4"-1 1/2"	2 3/4"-1 3/4"
Pump Constant	0.327	0.618	0.524

In wells with sand, grit often wears the plunger and the working surface of the pump barrel, which results in an increase in the fit clearance, a reduction in pump efficiency, and even a serious pump stuck in severe cases. In addition, for open sand content wells, ordinary pumps bury phenomenon is serious. In this regard, Weima designed and developed a long plunger sand setting pump that can be used in wells with high sand content and interstitial wells with sand content of less than 3%.

Characteristics:

1. High pump efficiency. The traveling valve cage of the pump is always exposed outside the barrel, the oil production resistance is small and the plunger descending resistance is small, so heavy oil extraction can be carried out;

2. The matching structure of the short pump barrel and the long plunger. The plunger always contacts the pump barrel, so that the grit in the string is not easy to enter into the fit clearance between the pump barrel and the plunger;

3.Lateral liquid inlet with sand settling tail pipe structure;

4.The pump is connected to the sand-settling tail pipe under the pump, the length is 100-200m, and the lower part is provided with a sealing wire plug;

5.Not suitable for wells with high oil-gas ratio.

The selection of fittings materials, various heat treatment processes and surface treatment processes can be applied to meet the requirements of well conditions for product strength, corrosion resistance and wear resistance.

Product Specification:

Tubing Size	2-7/8"	2-7/8"	3-1/2"	4-1/2"
Pump Diameter	1-1/2"	1-3/4"	2-1/4"	2-3/4"
Barrel OD	3.625"	3.625"	4.500"	5.563"
Sucker Rod thread	3/4"	7/8"	7/8"	1"
Connecting Tubing Thread	2-7/8"-8EU	2-7/8"-8EU	3-1/2"-8EU	4-1/2"-8EU
Code	25-150FS	25-175FS	30-325FS	40-375FS

Displacement:

The calculation formula of displacement is as follows:

$$P = C \times S \times N$$

P : Daily displacement, BPD;

S : Stroke length, in;

N : Frequency of strokes per minute, times/min;

C : Pump constant, as follows:

Pump Diameter	1-1/2"	1-3/4"	2-1/4"	2-3/4"
Pump Constant	0.262	0.357	0.590	0.881

Special Pump-Heavy Oil Pump

In the process of oil field exploitation, people usually call crude oil with a relative density greater than 0.9 and a viscosity of more than 100mpa*s when the surface is degassed at 50°C as a heavy oil or a heavy crude oil. The characteristic of high viscosity crude oil is poor liquidity, high resistance and difficult to exploit. If conventional oil pumps are used to exploit heavy oil, the following problems will occur:

1. Suspension weight of the sucker rod changes greatly, that is, the maximum load on the upstroke increases and the minimum load on the down stroke decreases;

2.The torque of pumping unit gearbox increases and engine power increases;

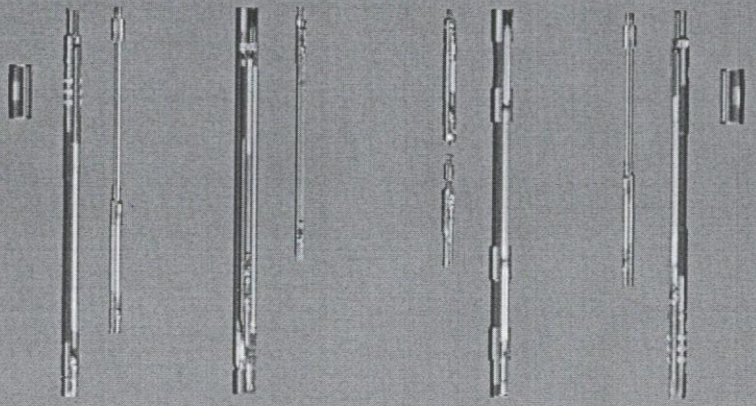
3.Sucker rods have worse working conditions, which can easily cause fatigue damage to sucker rods;

4.Due to the heavy oil resistance, the valve ball close slowly by gravity. The flow resistance is large, and the speed of opening the valve ball is slow. Therefore, in heavy oil production, the inlet valve and the outlet valve are often delayed to open and close, cause to pump efficiency reduced.

From the above, it can be known that the use of conventional oil pumps for heavy oil wells may cause a reduction of pump efficiency or inability of pumping. For this reason, the special pump we designed must have the ability to overcome viscous resistance. According to the characteristics of heavy oil wells, Weima uses the pressure of the tubing liquid column to assist the sucker rod to descend, and has designed several special henavy oil pumps.

WEIMA
OIL & GAS LIFTING

Subsurface Sucker Rod Pumps and Parts Catalogue



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Shandong Weima Pumps Manufacturing Co.,Ltd

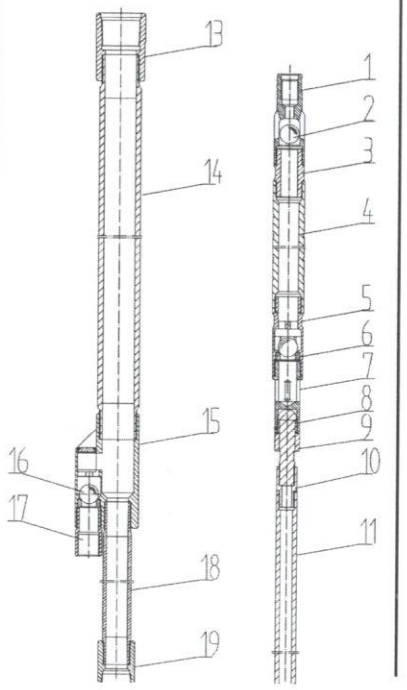
SHANDONG WEIMA PUMPS MANUFACTURING CO., LTD.

Eccentric Pump for Heavy Oil Pump

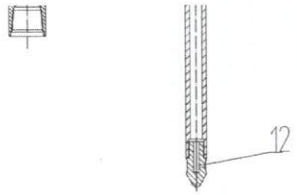
Pump Model: 89-70/38TH5.6/1.2-0.9/5.1PZ (Stroke Length: 4m)

Pump Data Sheet

No.	Name	Drawing Part No	Material	Quantity per pump	Remarks	Schematic Drawing
1	Top Open Cage	275TH-5	Stainless steel	1	Stellite Hardlined	
2	Ball & Seat	/	Tungsten Carbide	1	Seat dimensions: φ55×φ36×15mm	
3	Crossover	275TH-6	Stainless steel	1		
4	Big Plunger	275TH-7	Carbon steel	1	Spray metal thickness≥0.203mm	
5	Closed Cage	275TH-8	Alloy steel	1	Stellite Hardlined	
6	Ball & Seat		Tungsten Carbide	1	Seat dimensions: φ55×φ36×15mm	
7	Oil Inlet Connector	PB70/44-02	Alloy steel	1		
8	Moving Connector	PB70/38-02	Alloy steel	1		
9	Moving Connector	PB70/44-04	Alloy steel	1		
10	Bushing Coupling	PB56/38-13	Alloy steel	1		
11	Small Plunger	PB56/38-05	Carbon steel	1	Spray metal thickness≥0.203mm	



12	Guiding Connector	PB56/38-06	Alloy steel	1	
13	Coupling	275TH-1	Alloy steel	1	
14	Big Barrel	275TH-2	Carbon steel	1	Chrome coating thickness≥0.076mm
15	Eccentric Cage	PB70/38-C14Q	Alloy steel	1	Stellite Hardlined
16	Ball & Seat	V11A250	Tungsten Carbide	1	at dimensions: φ51.05×φ33.27×12.7m
17	Eccentric Cage Connector	P12-PB7038	Alloy steel	1	
18	Small Barrel	FG38-1	Carbon steel	1	Chrome coating thickness≥0.076mm
19	Tubing coupling	JG-01	Alloy steel	1	
20	Tubing Joint	DJ-01	J55	1	Used for protection during transit. Not shown in the drawing.



Subject: FW: Heavy oil Pump

From: Mohamed Saad <MSaad@scimitaregypt.com>
Sent: Wednesday, June 3, 2026 3:01:50 PM
To: Deputy WorkOver Manager <WorkoverEngineer@scimitaregypt.com>; Work-Over Manager <SrWOComp@scimitaregypt.com>
Cc: Raed Rafik <RRafik@scimitaregypt.com>; Emad Nabil <enabil@scimitaregypt.com>; Shaban Hussaini <SHussaini@scimitaregypt.com>; Field General Manager <fieldmanager@scimitaregypt.com>; Tamer Ganoub <Tganoub@scimitaregypt.com>
Subject: Heavy oil Pump

Dears,

Please proceed with providing PR for 5 sets from attached pump type.

- 5 sets of 89-70/38TH5.6/1.2-0.9/5.1PZ (Stroke Length: 4m)
  2 ¾" 1 ½" for 3.5" tbg with code 30-275/150PF

Tubing Size	2-7/8"	3-1/2"	3-1/2"
Pump	2 1/4"-1 1/2"	2 3/4"-1 1/2"	2 3/4"-1 3/4"
Barrel OD	4.500"	5.250"	5.250"
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Code	25-225/150PF	30-275/150PF	30-275/175PF

Note: attached technical in the PR please

Thanks.

B.R,
Mohamed Saad