

## Rig 1

### Equipment List.

#### Technical Specification

##### 1.1 XJ 750 WO Rig

No.	Item	Specification	Remark
1	Drilling Capability	3000 m 4-1/2" Drill pipe drilling 5000 m 4-1/2" Drill pipe workover 6500 m 3-1/2" Drill pipe workover	
2	Max. static Hook load	1800 KN (10 lines)	
3	Draw works Power	750 HP	
4	Mast Height (Clear Height )	39 m	
5	Monkey Board Height (to rig floor )	24 m	
6	Number of lines	10	
7	Drilling line Diameter	Φ32 mm	
8	Max. Hoisting Speed	0.23 ~ 1.5 m/s	
9	Drift ID of Rotary Table	27.5½" (φ698.5 mm)	
10	Drift ID of Swivel washing pipe	Φ76 mm	
11	Drill Floor Height	6.8 m	
12	Drill Floor Weight	1800 KN	
13	Drill Floor clear height	5.7 m	
14	Drill Floor support opening	>3.0 m	
15	Chassis Drive type	14 x 8	
16	Max. moving speed (without mast )	60 km/h	
17	Restricted moving speed (with mast )	45 km/h	
18	Shaft space mm	1350+1350+4150+1350+1350+1350	
19	Front wheel space mm	2450	
20	Rear wheel space mm	2310	
21	Front angle	33°	
22	Rear angle	18°	
23	Min. turn radius m	19.6 m	
24	Max. road slop %	26%	
25	Min. off road space mm	311 mm	
26	Type of Tire:	445/65R22.5 、 12-20	
27	Moving Size (length X width X	22 x 3.5 x 4.6 (with mast)	
28	Moving weight with	78,000 kg (with mast)	
29	Moving weight without mast	50,500 kg (without mast)	
30	Environment Temperature	-20 ~ +50°C	

### 1.2 SL 170 Swivel

NO.	Item	Specification	Remark
1	Type	SL170	
2	Max. static load	1700 KN	
3	Max. working pressure	35 MPa	
4	ID. of wash pipe	Φ76 mm	
5	Connection of goose	4"1502 union	
6	Connection of bottom	4 1/2" REG (L/H)	

### 1.3 ZP 275 Rotary Table

NO.	Item	Specification	Remark
1	Rotary Table	ZP275	
2	Length	2392 mm	
3	Width	1670 mm	
4	Height	685 mm	
5	Maximum Rotary Torque	15 KN:m	
6	Max. Static Load	4500 KN	
7	Max. Rotating Speed	300 rpm	
8	Ratio of Speed	1:3.67	
9	Weight	6163 kg	
10	Thru Bore	698.5 mm (27.5")	

### 1.4 CAT C15 Engine #1

NO.	Item	Specification	Remark
1	Engine Type	CAT C15	
2	Engine Power	750 HP / 2100 r/min	
3	Number of Cylinders	6	
	Cylinder ID and Stroke	145 x 183 mm	
4	Discharge )	18. 1	
5	Ratio of Compressing	16.5: 1	
6	Rotating Direction	Anti-clockwise	
7	Sequence of Ignition	1-5-3-6-2-4	
8	Cooling Type	Water cooling	
9	Max. Torque	4713 Nm. / 2100 r/min	

### 1.5 CAT C15 Engine #2

NO.	Item	Specification	Remark
1	Engine Type	CAT C15	
2	Engine Power	750 HP / 2100 r/min	
3	Number of Cylinders	6	
	Cylinder ID and Stroke	145 x 183 mm	
4	Discharge )	18. 1	
5	Ratio of Compressing	16.5: 1	
6	Rotating Direction	Anti-clockwise	
7	Sequence of Ignition	1-5-3-6-2-4	
8	Cooling Type	Water cooling	
9	Max. Torque	4713 Nm. / 2100 r/min	

### 1.6 Traveling Block

NO.	Item	Specification	
1	Max. Hook Load	1800 KN	
2	Number of Pulley	5	
3	OD. of Pulley	915 mm	
4	OD. of Drilling line	Φ32 mm	
5	OD. of Hook Main Opening	170 mm	
6	OD. of Hook Aux. Opening	114 mm	
7	Size	3402 x 960 x 725 (mm)	
8	Weight	4594 Kg	

### 1.7 Mud Pump

NO.	Item	Specification	
1	Type	F-800	
2	Rated Input Power	596 KW (800HP)	
3	Rated SPM	150 SPM	
4	Rated Transfer Ratio	4.18:1	
5	Pump Inlet Size	10"	
6	Pump Outlet Size	3"	
7	Max. Cylinder ID.	170 mm	

## 1.8 Mud Tank

NO.	Item	Specification	Remark
1	Type	80 m3 x 4	
2	Shale shaker tank	70 m3	With trip tank 10 m3
3	Mixing tank	70 m3	With big bag feed
4	Reserve tank	90 m3	With 6 agitators
5	Water tank	80 m3	With fire pump
6	Poor Boy	1.3 Mpa	Suitable for use in H2S / CO2 environment

## 1.9 FKQ 640-6 BOP Remote Control Unit

Type	FKQ 640-6
Size(mm)	5450 × 2250 × 2650
Weight(kg)	6800
Type of Power	Pneumatic/Electrical
Number of control item	6
Cylinder Capacity	40 x 16
Reservoir usable	320
Reservoir Capacity	840
Installation Queue	Sided
Engine Power	18.5 kw
Output of Electrical pump	42 L/min
Output of Pneumatic pump	175 mL/stroke*2
Rated pressure	21Mpa
Working pressure	21 Mpa
Range of Pressure Regulating	0~14 Mpa
Pre-charged Nitrogen Pressure	7±0.7 Mpa
Regulating range of Pressure sensor	18.5~21 Mpa
Regulating range of Pneumatic Switch	18.5~21 Mpa
Air pressure:	0.8 Mpa / 114 psi
Power	380±19V / 50 Hz
Auto run pressure	18.5 Mpa
Auto stop pressure	21 Mpa
Manifold pressure	10.5 Mpa

## 1.10 Power Tong

XYQ12A Power Tong Parameters			
1	Main Tong pipe range	mm	73-140
		inch	2-7/8" - 5-1/2"
2	Low Gear Max. Torque	kn.m	12
		ft-lbs.	8843
3	Second Low Gear Torque	kn.m	7.8
		ft-lbs.	5748
4	Second High Gear Torque	kn.m	4.2
		ft-lbs.	3095
5	High Gear Max. Torque	kn.m	2.6
		ft-lbs.	1916
6	Low Gear Max. Speed	rpm	14
7	Second Low Gear Speed	rpm	24
8	Second High Gear Speed	rpm	42
9	High Gear Max. Speed	rpm	72
10	Max. oil pressure	MPa	12
		psi	1740
		bar	122
11	Max. oil supply rate	lpm	120
		gpm	32
12	Weight	kg	480
		lbs.	1057
13	Size	mm	1024 x 582 x 539
		inch	40.3 x 22.9 x 21.2

## 1.11 2FZ28-35 Double Ram BOP

BOP Specification		
BOP Type	2FZ28-35	Remark
Manufacturer	Guanghan Petroleum Machinery	
Manufacture Date	2019 / 4	
Size	2722 mm × 850 mm × 870 mm	
Bore size	11" (Φ279.4mm)	
Weight	4095Kg	
Rated working pressure	35MPa	
Upper and Lower flange	11"5000psi R54 studs' connection	
Side flange size	4 x 6B 2 9/16" 5,000psi R24 flange	
Recommended working	1200~1500psi (8.5~10.5 Mpa)	
Rated operating pressure	3000psi (21 Mpa)	
Open/close volume	5.1L	
Close rate	6.9:1	

Open rate	2.2:1	
Hydraulic hose size	1"NPT	
Working medium	Sulfide gas, oil, mud, water	

### 1.12 FH18-35 Annular BOP

Annular BOP Specification		
BOP type	HF28-35	Remark
Manufacturer	Guanghan Petroleum Machinery	
Manufacture Date	2019 / 4	
Size	Φ1138 mm × 1090 mm	
Bore size	11" (Φ279.4 mm)	
Weight	4220 Kg	
Rate working pressure	35MPa (5000psi)	
Top connection	11"5000 psi R54 studs' connection	
Bottom connection	11" 5000 psi R54 studs' connection	
Operating pressure	8.5~10.5 MPa	
Hydraulic hose size	1"NPT	
Working medium	Sulfide gas, oil, mud, water	

### 1.13 Generators

Generators Specification		
Generator Model	HHV500	
Manufacturer	Puyang Zhongrui Petroleum Machinery	
Manufacture Date	2019 /4	
Engine Model	TAD1641GE (VOLVO PENTA)	
Generator Model	HCI544D1	
Rated Power (KW/KVA)	404 KW / 505 KVA	
Rated Current (A)	730A	
Rated Rotation (r/min)	1500	
Rated Voltage (V)	400/230	
Frequency (HZ)	50	
Power coefficient (COSφ)	0.8	
Engine Start Type	Electrical start	
Cooling method	Water cooling	
Noise	<105 Db(A)	
Size (L×W×H)	3300 × 1300 × 2070 (mm)	
Weight	≤3710 kg	

### 1.14 LW500KV Loader

LW500KV Loader Specification		
Model	LW500KV	Remark
Manufacturer	Xugong Engineering Machinery	
Manufacture Date	2019 / 5	
Size	8225 x 3016 x 3515mm	
Engine Serial No.	1618L147767	
Type	4 stroke	
Rated power	162 kw	
Rated speed	2200 r/min	
Max. Torque	≥850n.m	
Rotation speed	1400-1600 r/min	
Rated fuel consumption	≤238g / kw.h	

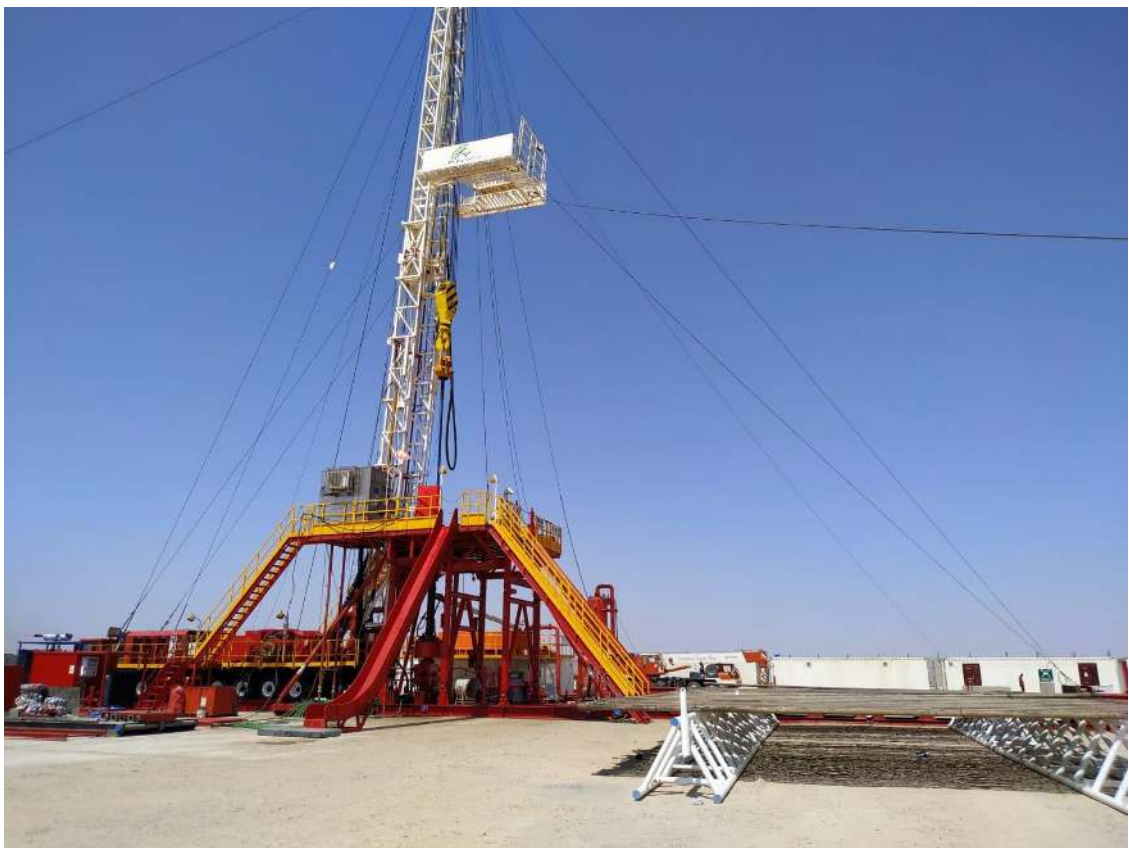
### 1.15 Drill Pipe and Tools

Tools Specification		
Drill pipe	3 1/2" IF DP 3000 m	
Drill pipe	2 7/8" IF DP 2000 m	
Manufacture Date	2019 / 4	
Casing scraper	9-5/8", 7", & 5-1/2"	
Crossover and sub	All subs and crossover for DP & Bits	
Fishing Tools	Used for down hole equipment in 9-5/8", 7" and 5-1/2" casing	
Drilling bit	5pcs of 8-1/2" rock bit + 5pcs of 6-1/8" rock bit + 2pcs of 4-1/8" rock bit	
Milling shoe	10 pcs φ210 mm flat bottom mill shoe + 10pcs φ148 mm flat bottom mill shoe +2pcs φ108 mm flat bottom mill shoe	

### 1.16 Camp Units

Camp Specification		
Company room	2 units	
VIP third party room	2 units	
HSE office	1 unit	
Rig manager office	1 unit	
Meeting room	1 unit	
Laundry room	1 unit	
Clinic	1 unit	
Kitchen and dining room	2 units	
Food store	2 units	
2 Bed Cabins	10 units	
4 Bed Cabins	10 units	
Toilet / Shower	1 unit	





ACME Energy Services – Libya are able to support both drilling and workover operations.

Listed and shown is WO Rig 1 – HP 750, also available:-

- WO Rig 2 – HP 750 (identical to 1)

**For More Info Please Contact**

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