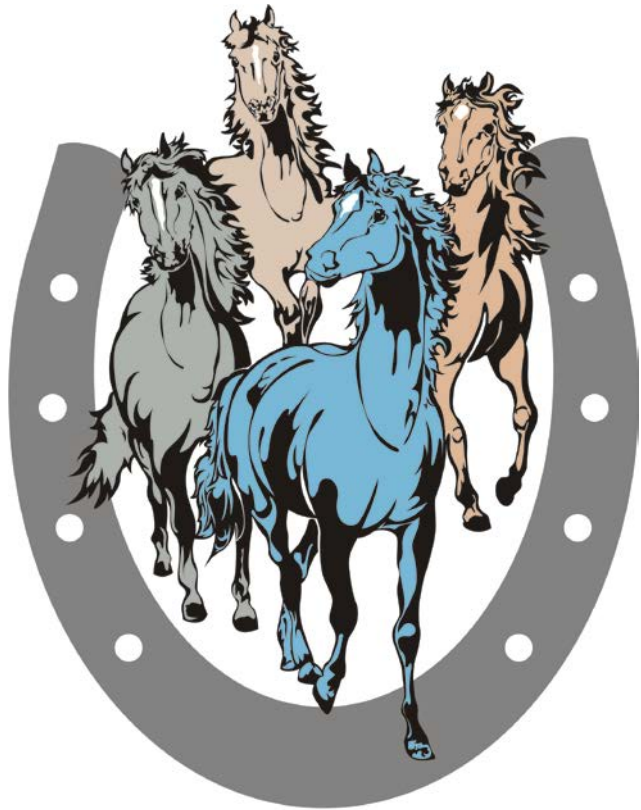




ATLI
E N E R J i

Pi PK - 200
Information Document

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Pi PK Drilling Rig Inventory

1. Rig Data

Rig Name	Pi PK 200
Year of construction	2014
Static hook load	200 Ton
Setback Capacity	300 Ton
Drilling Capacity	4000 m

2. Mast Data

Make	Pi Makina
Type	Telescopic
Clear Height from Ground Level	42 m
Clear Height from Drilling Floor	35

3. Substructure

Drill Floor Height	7 m
Clear Height Under Rotary Beam	6,5 m
Drilling floor Dimensions (m x m)	7x5

4. Drawworks

Make	U PETROM
Type	F 250
Rated Input Power (HP)	1200 HP
Main drum clutch	CB600X125
Main drum grooved for line OD (inch)	1 1/8"
Drill Line	1"
Brake type	44x12"
Hydromatic Auxiliary Brake Make / Model	F 250 Heavy Duty
Cooling fluid	Water
Crown-O-Matic device	Exists

5. Power Pack

Diesel Engine Make / Model	Detroit Diesel 12v 71
Diesel Engine Hoisting Power	600 Hp
Diesel Engine Quantity	2
Diesel Engine Rate	2100 Rpm
Automatic Gear Box Make / Model	Allison 6601 CLBT
Automatic Gear Box Quantity	2 (1 back up)

6. Rotary Drive and Rotary Table

Make	IU PETROM
Rotary Table Opening	27 ½
Max static load on table	300 Ton
Max speed	200 rpm

7. Electrical Winch

Electric Motor	18,5 Kw-50Hz Driver
Capacity	5000 Kg

8. Drilling Equipment

Travelling Block - Hook make	NOV
Travelling Block - Hook Working load capacity	200 Ton
Swivel Make / Model	SL 225-3
Swivel Static capacity	225 Ton

9. Mud Tanks

Manufacturer	Pi Makina
Number Of Tanks	5
Tanks Capacity	400 bbl per each
Total Tank Capacity	2000 bbl
Tank Dimensions	12,5 m x 2,5 m x 2,5 m

10. Pumps		
Make / Model	Made in USA	
Quantity	2	
Rated Input (HP)	1600 (Electrical motors made in Houston USA)	
Type	Triplex	
Driven by	2 water cooled electrical motors	
Power of Electrical Motors	800 HP (per each)	
Booster Pumps	6 x 8	
Power Of Booster Pumps	100 HP (per each)	
11. Shale Shaker		
Make / Model	Derrick Flo 2000	
Quantity	3	
Electric Motor	Derick Super G 2,2Kw 60 Hz exproff	
12. Degasser		
Make / Model	SWACO	
Quantity	1	
Electric Motor	2,2Kw 1800 d/d 1Adet	
13. Mud Cleaner		
Make / Model	I-Form	
Quantity	1	
Electric Motor	Sant.Bes.Mot. 55Kw 1500 d/d	
14. Hopper		
Quantity	2	
Electric Motor	55Kw 1800 d/d exprof	
15. Mud Agitators		
Quantity	3 per each tank	
Electric Motor	10 HP	
16.Suction Tank		
Supercharging Centrifugal Pump	6x8	
Quantity	2	
Electric Motor	Marelli Sant.Bes.Mot. 55 Kw 1500 d/d Exprof	
Mud Agitators	3	
Electric Motor	Marelli 15Kw	
17. Mixing Tank – Mud Agitators		
Quantity	3	
Electric Motor	Marelli 15Kw	
18. Trip Tank		
Capacity	35 bbl Electric motor, 2,2 Kw 50 Hz	
19. Poor Boy Degasser		
Make / Model	Manufactured by Pi Makina	
20. Power Generator		
Make / Model	MTU	MTU
Quantity	4	1
Prime Power	1200 Kw - 600 V.	500 Kw 380 V.
Frequency	60 Hz.	50 Hz.
Speed	2200 RPM	1500 RPM
21. MCC – Switch Gear Panel		
Make / Model	ATLI	
Quantity	1	
MCC for mud system	660 V 60 Hz	
MCC for lighting system	220 V 150 Hz	

22. Air Unit - Utility House	
Pressure at discharge with dryer	9,8 Bar
Pressure at discharge without dryer	10 Bar
Capacity	3 m ³
Power	18,5 kW
Quantity	2
Auxiliary Equipment	
1. Water Cooling System	
Make / Model	ATLI
Water Tank Capacity	350 bbl
2. Fuel Tank	
Total Capacity	90000
Quantity	2
3. Deviation Measuring Tool	
MD Totco	8"
Electrical Top Drive BW 250	
Static Hoist Rating	250 Ton
Electric Motors	one (1), Water cooled
Output Power - Continuous	300 kW
Output Power - Intermittent	740 kW
Drilling Torque Rating	34700 lbs/ft @ 118 RPM
Intermittent Torque Rating	50600 lbs/ft @ 103 RPM
Pipe Handler Orientation	Unlimited, remote controlled
Diameter Range	3.00 to 9.0 inches with alternate die bocks
Back-Up Wrench Maximum Travel	43.25 inches (110 cm)
Circulating Pressure Rating	5000 PSI (34 500 kPa)
Inside BOPs	One (1) remote operated, 10000 psi One (1) manual operated, 10000 psi
Quill Connection	3.0 inches (7.6 cm)
Cooling System	12 GPM flow (4511min f1ow) 2 350 PSI (16 200 kPa) Pressure compensated control
Top Drive Power Unit	PTU 250

Well Control Equipment

1. BOP Stack

Annular BOP Working Pressure	3000 PSI
Annular BOP Quantity	1
Annular BOP Bottom Connection	13 5/8"X3000
Double Ram Working Pressure	5000 PSI
Double Ram Outlet	3 1/8" 5000 PSI
Double Ram Top Connection	13 5/8" X5000 PSI
Double Ram Bottom Connection	13 5/8" X5000 PSI
Double Ram Quantity	1 Adet
Single RAM BOP	21 1/4" 3000 PSI

2. Drilling Spool

Side Outlet	3 1/8"
Top Connection	13 5/8 X 3000
Bottom Connection	13 5/8 X 50000
Approximate Height	90 cm
Quantity	1

3. Choke Line and Kill Line

Diameter & Pressure	3 1/8" - 5000 psi
HCR	1
Manual gate valves	6
Check valve	2
Flexible steel hose	2" X 20 m

Drill String Primary and Secondary String, API Premium Grade

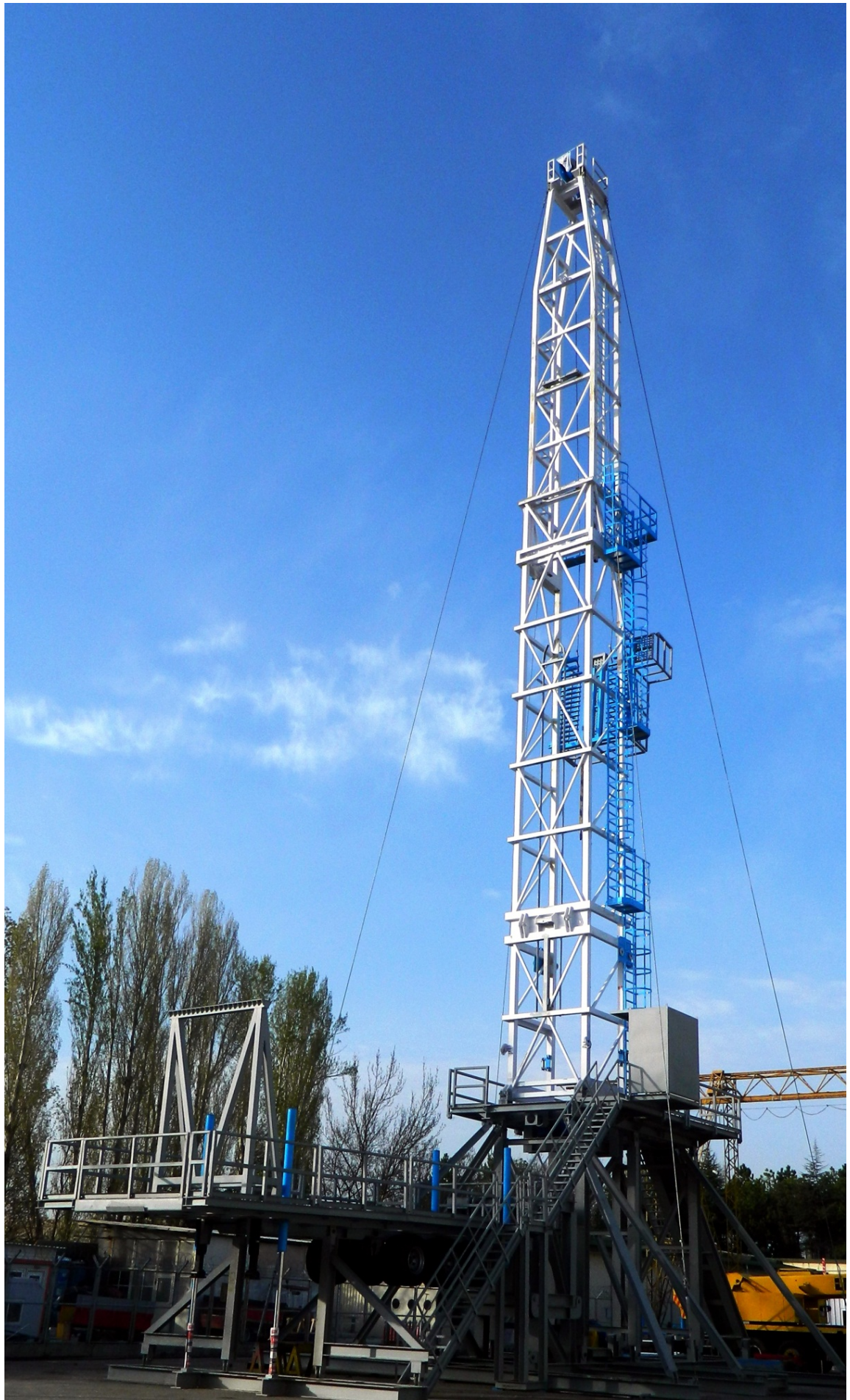
1. Drill Pipe (Primary String)	
Nominal O.D.	5"
Steel grade (type)	G 105
Total quantity	400
Range length of each joint (No.)	Range2
Pipe body weight	19,6 lb/ft
Tool joint & pipe connection (type)	4 ½" IF
Min Tool joint O.D.	6 ¾"
D.P. API classification (type)	Premium
2. HWDP	
Nominal O.D.	5"
Quantity	15
Range	Range 2
Tool Joint & Pipe connection (type)	4½" IF
Min Tool joint O.D. (Primary/Secondary)	6 ¾"
Equivalent API specification (type)	Premium
3. Drill Collars	
Nominal O.D.	8" + 9"
Connection Type	6 5/8 Reg Pin Box
Quantity	12+ 6
Inside diameter	2 ¾ ,3
Length of each joint	31 ft
Drill collar body (type)	Spiral+Slick
Outside diameter	6 ½"
Connection Type	4 ½" IF
Quantity	20
Inside diameter	2 ¼"
Length of each joint	31 ft
Drill collar body (type)	Spiral - Slick
4. Stabilizer	
Hole size	17 ½" ,12 ¼" ,8 ½" 2 each
Type	String type ,integral,roller
5. Bit Sub (Float Type)	
Quantity	For all bitsubs float valves exist
6. X-Over	
Quantity	For all string x-overs exist
7. Lift Subs For Drill Collars	
Quantity	For all drill colars lift subs exist
8. Drill Pipe (Secondary String)	
Nominal O.D.	3 ½"
Steel grade (type)	G 105
Total quantity	250
Range length of each joint (No.)	Range2
Pipe body weight	15,6 lb/ft
Tool joint & pipe connection (type)	3 ½" IF
Min Tool joint O.D.	4 ¾"
D.P. API classification (type)	Premium

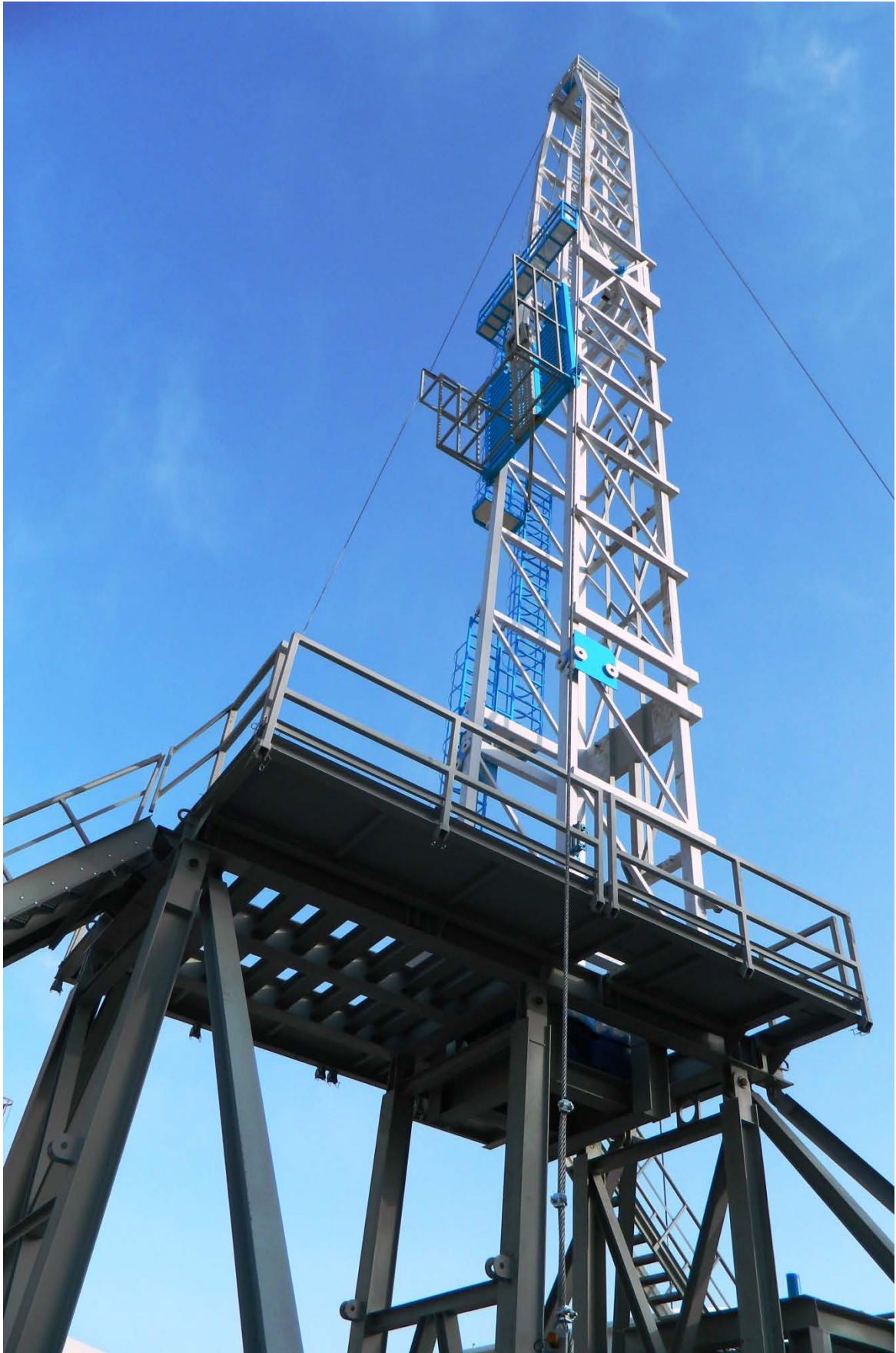
Rig Floor Equipment	
1. Drill Pipe Elevators	
Quantity	Drill pipe elevators exists with various diameters x 2
Rated capacity	250 tons
2. Drill Pipe Slips	
Quantity	Drill pipe slips exists with various diameters x 2
3. Drill Collars Slips	
Quantity	Drill collar slips exists with various diameters x 2
4. Safety Clamps	
Quantity	Safety clamps exists with various diameters x 2
Size	Adjustable clamps for various types
5. D.P. and D.C. Rotary Tongs	
Quantity	2
Type	BJ, HT
Range size from	3 ½"
Range size to	20"
6. Elevator Links	
Set	2
Length, 1 Set	92", 130"
Rated capacity	250 TONS
7. D.P. Circulating Heads	
Quantity	5" & 3 ½ for drill pipe
Drilling Console	
8. Weight Indicator	
Make / Model	Martin Decker
Capacity	200 Ton
9. Dead-line Load	
Capacity	45 Ton
10. Mud Pump Pressure Gauges	
Pressure Range	5000 PSI x 5
11. Rotary Torque Indicator	
Quantity	1
12. Rotary Speed	
Quantity	1
13. Tong Torque Indicator	
Quantity	1
14. Mud Pump Stroke Indicator	
Quantity	2
15. Mud Pump Stroke Totalizers	
Quantity	1
16. Mud Pit Volume Indicators	
Quantity	1
17. Mud Flow Volume Indicator	
Quantity	1
18. Drill Data Monitoring System	
Quantity	1

Fishing Tools		
	Unit	Qty
Bowen series 150 releasing and circulating overshot complete, assembly no:12822 and 11 1/4" OD , 6 5/8" REG connection and standart guide.	ea	1
9 5/8" Spiral Grapple for Item - 1	ea	2
9 5/8" Type -A packer for item - 1	ea	2
9 5/8" Control for item - 1	ea	2
9 1/2" Spiral grapple for item - 1	ea	2
9 1/2" Type - A packer for item - 1	ea	2
9 1/2" Control for item - 1	ea	2
8" Basket grapple for item - 1	ea	2
8" Basket grapple control for item - 1	ea	2
7 3/4" Basket grapple for item - 1	ea	1
7 3/4" Basket grapple control for item - 1	ea	1
Extension sub for item-1 , length: 48"	ea	1
11" OD Oversize guide for item - 1	ea	1
Bowen series 150 releasing and circulating overshot complete, assembly no:264 and 9 5/8" OD , 6 5/8" REG connection and standart guide.	ea	1
8" Spiral grapple for item - 2	ea	2
8" Type - A packer for item - 2	ea	2
8" Control for item - 2	ea	2
6 1/2" Basket grapple for item - 2	ea	2
6 1/2" Mill control packer for item - 2	ea	2
6 1/2" Control packer for item - 2	ea	2
6 1/2" Mill control packer inner seal for item - 2	ea	2
6 1/2" Mill control packer outer seal for item - 2	ea	2
4 1/2" Basket grapple for item - 2	ea	2
4 1/2" Mill control packer for item - 2	ea	2
4 1/2" Control packer for item – 2	ea	1
4 1/2" Mill control packer inner seal for item - 2	ea	2
4 1/2" Mill control packer outer seal for item - 2	ea	2
Extension sub for item-2 , length: 48"	ea	1
Bowl for item - 2	ea	1
15" OD Oversize guide for item - 2	ea	1
Bowen series 150 releasing and circulating overshot complete, assembly No:C-2108 and 7 7/8" OD , 4" IF connection and standart guide.	ea	1
6 1/4" Spiral grapple for item - 3	ea	2
6 1/4" Type -A packer for item - 3	ea	2
6 1/4" Control for item - 3	ea	2
4 1/2" Basket grapple for item - 3	ea	2
4 1/2" Mill control packer for item - 3	ea	2
4 1/2" Control packer for item - 3	ea	1
4 1/2" Mill control packer inner seal for item - 3	ea	2
4 1/2" Mill control packer outer seal for item - 3	ea	2
Extension sub for item-3 , length: 48"	ea	1
Bowen series 150 releasing and circulating overshot complete, assembly No:C-5171 and 5 7/8" OD , 3 1/2" IF connection and standart guide.	ea	1
4 3/4" Spiral grapple for item - 4	ea	2
4 3/4" Type -A packer for item - 4	ea	2
4 3/4" Control for item - 4	ea	2
3 1/2" Basket grapple for item - 4	ea	2

3 1/2" Mill control packer for item - 4	ea	2
3 1/2" Control packer for item - 4	ea	2
3 1/2" Mill control packer inner seal for item - 4	ea	2
3 1/2" Mill control packer outer seal for item - 4	ea	2
Extension sub for item-4 , length: 48"	ea	1
Bowl for item - 4	ea	1
15" OD JUNK BASKET(6 5/8" REG Box up connection)	ea	1
Junk catcher for item - 5	ea	2
11" OD JUNK BASKET	ea	2
Junk catcher for item - 6	ea	2
7 7/8" OD JUNK BASKET	ea	2
Junk catcher for item - 7	ea	2
15" Junk mill, taper mill (6 5/8" REG connection)	ea	1
11" Junk mill, taper mill (6 5/8" REG connection)	ea	1
8 1/8" Junk mill, taper mill (4 IF connection)	ea	1
Magnet	ea	1
15" Flat type junk mill (6 5/8" REG connection)	ea	1
11" Flat type junk mill (6 5/8" REG connection)	ea	1
8 1/8" Flat type junk mill (4 IF connection)	ea	1
Accommodation Units		
Living quarters	For two persons with independent entrance, internet, bath, toilet and air conditioner.	
Office container	With PC', Printer, internet access, satellite TV, furniture, air conditioner, refrigerator	
Quest container	With satellite TV, furniture, air conditioner, internet, refrigerator	
Optionals		
Batch Mixers	350 bbl	
Cementing Unit 1	SPM 600	
Cementing Unit 2	Iveco 600	
Casing power tong	4 ½" - 13 ⅜	

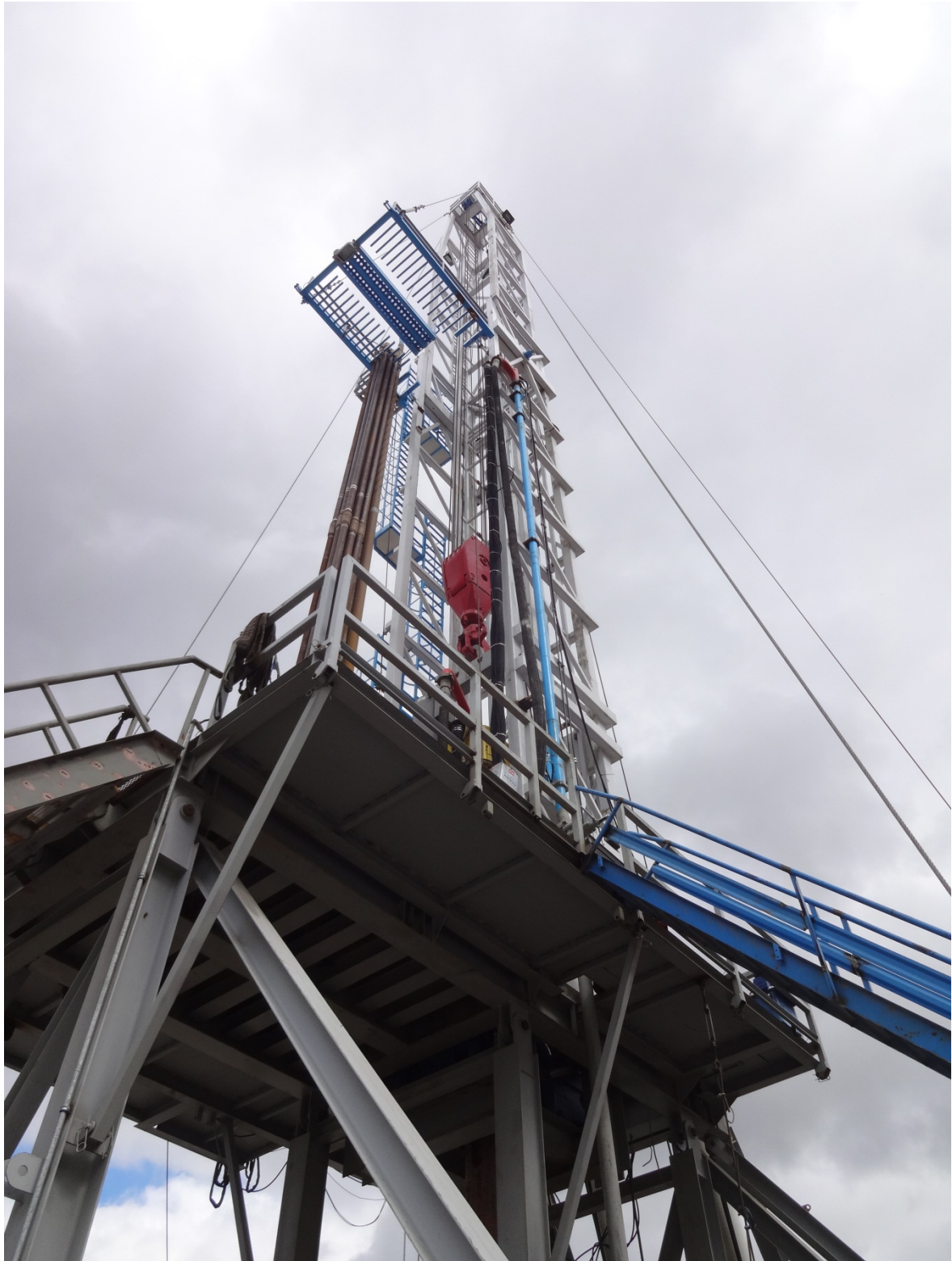
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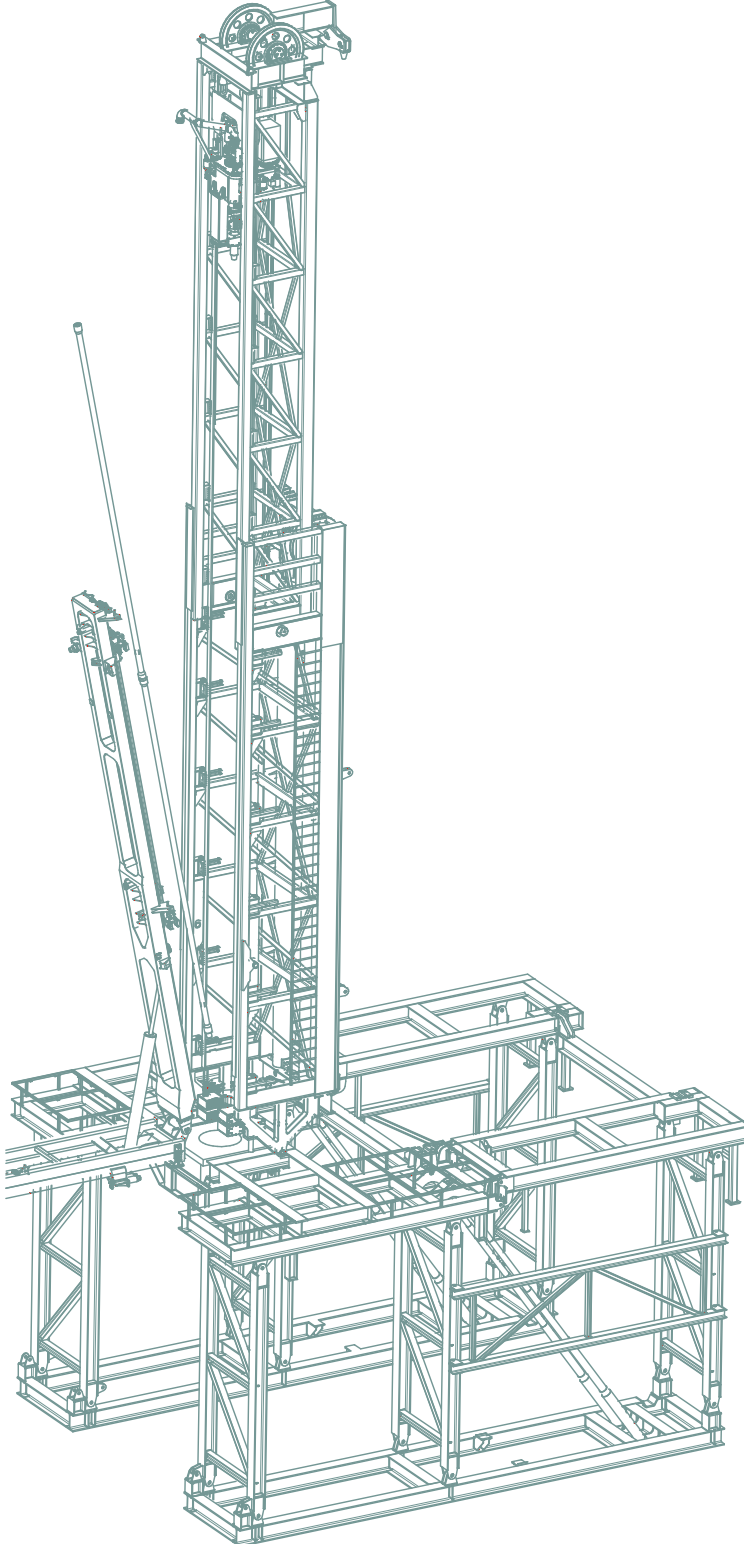












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