

Rig #4

1. Loads for moving – Summer (12)
- Winter (13)
2. Fuel Consumption – 2000 L/day
- 1000 L/day when tripping
3. 1 – Series 60 Lee 400C Drawworks
4. 1 – IDECO T-800 Triplex Pump
5. 1 – 855 Gen. (208v) 120, 350 Amp
6. 1 – 60 Series Detroit 650 Amp
7. 118” Clear Height

Top Drive – FDS (Fluid Design Systems)

Features:

- Integrated Swivel and Traveling Block
- Back Torque Track and Bushing
- Integrated Backup Leg
- Integrated Thread Saver
- Top Drive Extend, c/w Back Torque Track
- Front Torque Track Available, no extend

Specifications:

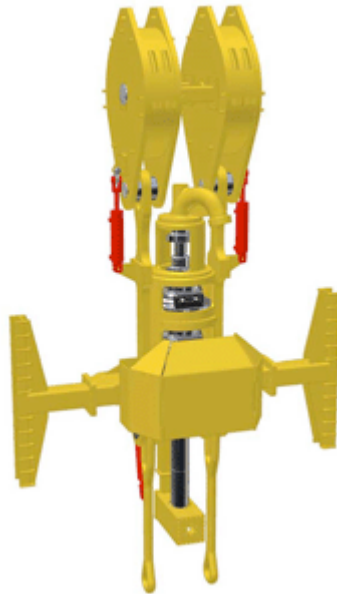
- Rated Capacity = 150 Ton
- API Dynamic Capacity = 100 Ton
- Pull Down Capacity = 15 Ton
- Breakout Torque = 15,000 ft-lb
- Makeup Torque = 13,000 ft-lb

Top Drive Running range:

@ 40 RPM max 23,500 ft-lb (intermittent)

@ 100 RPM max 19,000 ft-lb

@ 180 RPM max 13,000 ft-lb



Maximum Speed = 200 RPM

RIG #4 EQUIPMENT LIST

Item	Description
DEPTH RATING	- 2000 m
DRAWWORKS	- Lee 400C Drawworks - Lebus grooved for 1 1/18" line, air drillers console, Parmac 22" Pullmaster PL8 hyd. Hoist, skid mounted, make up & break out rams
a) ENGINES	- 60 Series Detroit 425 HP
b) TRANSMISSION	- Allison 6061
MUD PUMPS	- 1 IDECO T-800 driven by (2) 425 HP Detroit
SUBSTRUCTURE	- Kremco 8' width x 11' height x 50' length single piece substructure c/w rotary beams, V-door ramp, stairs, heater, & lights
MAST	- Kremco 109' Telescopic Mast; c/w 270,000 lb static hook load, pin type; McKissick crown block w/4 – 30" sheaves, fastline, 3" stand pipe, crown safety platform, ladder, derrick climber, mast stand.
ROTARY	- Cooper CR17.5 Rotary Table c/w split master bushing, mounted on sub.
TRAVELLING BLOCKS	- 150T Skytop Brewster – BJ Hook
SWIVEL	- Brewster 4SX with Foster Model 77 Kelly Spinner
FUEL TANK	- 20,000 Litres
WATER TANK	- 8' x 15'6" Doghouse c/w parts bin, lockers, lights, heater, V-top, skid mounted; drops into water tank. - 9'6" x 38' combination tool house c/w Mission 2" x 3" pump, Demco pump, water tank. 2 water pumps (15 HP and 17.5 HP)

Item	Description
<p>TANKS: Mud & Mud System</p>	<ul style="list-style-type: none"> - 10'6" W, 5' H x 50' L - 3 compartment – 43m³ - 1 sand trap comes with ARTIC Dump 2.20m³ - 1 pill tank 2.26m³ - 1 trip tank 3.67m³ - 12" x 3" hole fill pump - 2 steam heaters - 10' x 10'6" mud mix room - DFTS Linear Shaker - (2) 5" x 6" Mission Magnum mixing pumps - (1) 400 sidewinder mix hopper - 1 bean "style" hopper <p>-Mud tanks are equipped with all necessary plumbing, subsurface, mud guns, easy cleanout gates, walks, handrails, and mud mix hopper.</p>
<p>BOILER:</p>	<ul style="list-style-type: none"> - Volcano type boiler 80 HP Diesel fired c/w water tank and fuel tank
<p>GENERATORS</p>	<ul style="list-style-type: none"> - 1 60 Series 600 Amp – 650 Amp - 1 Cummins 855 c/w 350 Amp - 1 Quincy 340 and (1) 10 HP Devil Bliss air compressor - 11' x 45'6" Utility House c/w heater, lights, electric panels, lube tanks, lockers, V-top
<p>WELL CONTROL EQUIPMENT</p>	
<p>ACCUMULATOR</p>	<ul style="list-style-type: none"> - Wagner 10-105-1VN4 station Closing unit w/120 gal.cap., charging pump w/10 HP motor, Wagner

Item	Description
BLOW OUT EQUIPMENT	<ul style="list-style-type: none"> - 9” 3000 psi Shaffer Annular - 9” 3000 psi Shaffer “LWP” single gate BOP with 4” pipe rams - 9” 3000 psi Shaffer “LWP” single gate BOP with Blind rams - HCR – 3” 3000# WKM HCR <ul style="list-style-type: none"> - 3” 3000# Barton Manual - Kill Line – 2 2” 3000# National Ball Valves - 1 National 2” 3000# check valve
DRILL STRING	<ul style="list-style-type: none"> - 4” FH Grade “X95” 14 lb/ft drill pipe 210 joints - 14 joints 4 ¾” OP x 2 ¼” ID Drill collars with 3 ½” IF Thread connections. - 18 joints 6 ¼” c 2 ¼” ID Drill collars with 4 ½ XH connections. - 3 Pipe tubs for drill pipe

IDECO T - 800 TRIPLEX MUD PUMP

SPECIFICATIONS	
Maximum Input Horsepower	800 HP
Maximum spm	130 spm
Gear Ratio	4.32:1
Stroke	9 inches
Linear Size Range	4 ½ - 6 ½ inches
Maximum Pressure with Minimum Size Piston	4425/4 ½” psi
Maximum Volume with Maximum Piston Size	504 - 6 ½ gpm
Weight	32,700 lbs (14.8 m.t.)

PERFORMANCE DATA

Linear Size in. mm.		Strokes per Minute												Max. Discharge Pressure 800 hp pump psi kg/cm ²	
		60 gal/min lit/min 320hp (238kW)		80 gal/min lit/min 426hp (318kW)		110 gal/min lit/min 587hp (437kW)		120 gal/min lit/min 640hp (477kW)		130 gal/min lit/min 693hp (517kW)		150 gal/min lit/min 800hp (596kW)			
7	178	270	1022	360	1363	495	1874	540	2044	585	2214	875	2555	1828	129
6½	165	233	882	310	1173	427	1616	466	1764	504	1908	582	2203	2121	149
6	152	198	750	264	999	364	1378	397	1503	430	1628	496	1878	2488	175
5½	140	167	632	222	840	305	1155	333	1261	361	1367	417	1579	2960	208
5	127	138	521	184	697	252	954	275	1041	298	1128	344	1302	3588	252
4½	114	112	424	149	564	204	772	223	844	242	916	279	1056	4425	311