

# 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:

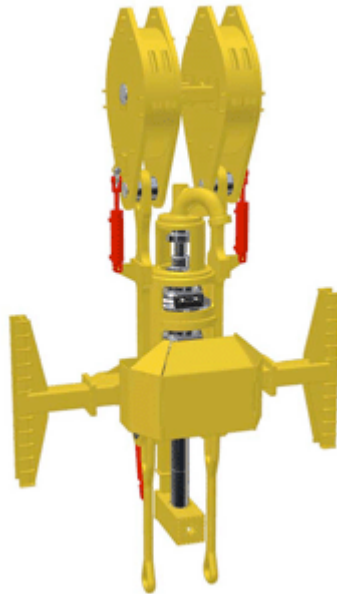
- Rated Capacity = 150 Ton
- API Dynamic Capacity = 100 Ton
- Pull Down Capacity = 15 Ton
- Breakout Torque = 15,000 ft-lb
- Makeup Torque = 13,000 ft-lb

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

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

## 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 <sup>2</sup>	
		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