

Rig #9

1. 2000 m Spencer Harris Telescopic Double
2. Fuel Consumption – 1500 - 2000 L/Day
- 500-600 L/Day when Tripping
3. Steelcraft 450 Drawworks
4. EMSCO F-800 Triplex Pump
5. Cummins QS M11 – G2 Power Generator
6. 11' Clear Height
7. Hydraulic Pipe Tubs
8. 12 Summer Loads

RIG 9 EQUIPMENT LIST

Item	Description
DEPTH RATING	- 2000 m
DRAWWORKS	<ul style="list-style-type: none"> - Steelcraft 450 Lebus grooved for 1 1/8 line - Hydraulic catheads and hydraulic wireline winch grooved for 1" line
(a) ENGINES	- Cummins 410 HP Diesel engine with air starters and rig saver
(b) TRANSMISSIONS	- Allison 6061 transmission – 5 forward gears / 1 reverse and a mounted PTO for hydraulic pump
RATED PULLING CAPACITY	- 8 lines @ 250,000 lbs
MUDPUMPS	- EMSCO F-800 driven by two 425 HP 60 Series Detroit
SUBSTRUCTURE	<ul style="list-style-type: none"> - Spencer Harris - Floor height – 11' - Width at base – 11' - Length – 15'9" - Rotary Table support – 200,000# - Rated Casing capacity – 200,000# - 30'16" folding backup ramp to sub
CARRIER	- 16 – wheel Steelcraft carrier 50' L x 12' W x 16'2" H
MAST	<ul style="list-style-type: none"> - Spencer Harris - 97 feet - Made from 4 1/2" T-1 Steel tubing having a 110,000 lbs per square inch yield and is API certified for a max rated static hook load of 250,000 lbs or 112 225 daN with 8 lines to the travelling block
ROTARY	<ul style="list-style-type: none"> - 17 1/2" Howard Turner table double bearings top and bottom - Split Master Bushings
Item	Description

TRAVELLING BLOCKS	- McKissick Block Assembly 100 Ton 4-30" sheaves combined with a BJ Unimatic 100-Ton Hook
SWIVEL	- Brewster TSM 150-Ton Swivel - DRILCO 4 1/4" x 37' square drive Kelly with 6 5/8" RLH 4 1/2" XH pin
MATTING	- 9 – 8 ft x 40 ft, 1 – 8 ft x 30 ft, and 1 – 8 ft x 20 ft.
FUEL TANK	- 15.41 cubic metres or 15,410 litre capacity 3,386.81 gallons - Two Baldor Fuel Pumps – 50 HP motors
WATER TANK	- 72m ³ or 454.32 bbl capacity
MUD TANK	- Single tank mud system, total capacity 50.6m ³ - One suction tank 14.59m ³ , 3 compartment plus 2.21 m ³ pill tank and mud treatment room - 2- 5x6 mission magnums - 50 HP electric motors - Shaker Tank 14.59 m ³ capacity - Sand Trap 1.64 m ³ capacity - 3.36 m ³ trip tank and desilter room - Mud tanks are equipped with all necessary plumbing, subsurface mud guns, easy cleanout gates, walks with handrails, stairways and bean style mix hopper
TANKS: MUD & MUD SYSTEM	- 1 agitator 10 HP - DFTS Model DF 183 linear motion Shale Shaker with scalping deck. Two INVICTA VIB Motors – 500w 230/460v 3ph. HP 0.67, RPM 1728, Force 3080 lbs - Two 5" x 6" Mission Magnum mixing pumps driven by 2 – 50 HP electric motors - Each pump can do pre-charge mud pumps, mixing hopper, and surface mixing - Poorboy Degasser - Heaters in mix room and in manifold room

Item	Description
GENERATORS	<ul style="list-style-type: none"> - Cummins QS M11 – G2 Power Generator - Standby HP 470/Kwm 350 – 1800 RPM - Standby 430/Kwm 321 – 1500 RPM - Prime 427/Kwm 318 – 1800RPM - Prime 391/Kwm 292 – 1500 RPM - Fuel Rated Power 269 - Rated KW – 3 PH – 275.0 Standby - 3PH – 250.0 Prime
BLOWOUT EQUIPMENT	<p>ACCUMULATOR</p> <ul style="list-style-type: none"> - Koomey Remote Control System - 80 gallon closing unit with triplex charging pump - 5 nitrogen bottles - 20 HP Electric Motor wired for 460 volts
CHOKE MANIFOLD	-3” – 3000 lb single gut, McEvoy valves – 2 Grey chokes and 2” Wing Lines
DRILL STRING	<ul style="list-style-type: none"> - 210 joints 4” X95 premium drill pipe with 4” FH connections - 2 – 8 ½” surface drill collars with 6 5/8” R connections - 12 – 6 ¼” drill collars with 4 ½” XH connections
BOILER	- Lister 100 HP Volcano Type
SAFETY EQUIPMENT	<ul style="list-style-type: none"> - 6 Fire extinguishers - 4 SCOTT Packs - Basket Stretcher & Spine board - Fall arrest - Spill Kit - Eyewash Stations - First Aid Kits
PIPE TUBS	<ul style="list-style-type: none"> - Two-Model RGZ ES DX Hydraulic tubs - 25 HP / 29 AMP / 1765 RPM Siemen’s Electric Motor - Frame 284 T - Spencer Hydraulic Rams - Working Pressure 2500 psi - Overall length 12.25 m - Width 2.27 m (5 tubs in total)
MISCELLANEOUS	
PIPE SPINNERS	- Finn Hydraulic Pipe Spinner