



## IADC Rig Inventory List

# Schramm TXD

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Ref	Item Description	Specification
<b>A.</b>	<b>GENERAL CHARACTERISTICS</b>	
<b>A.1</b>	<b>General</b>	
	Rig Name:	
	Type or Model:	Hydraulic Super Single TXD 200
	Manufacturer:	Schramm
	Year of Manufacturer:	2006
<b>A.2</b>	<b>Operating Capabilities</b>	
	Depth rating with 5 inch Drill Pipe:	2,500m (8,200ft)
	Maximum rated static hook load:	200,000 lb (90,909 kg)
	Gross Nominal Capacity (lb):	200,000 lb (90,909 kg)
	Maximum top drive load (lb):	200,000 lb (90,909 kg)
	Maximum operating wind speed (kt):	93
<b>A.3</b>	<b>Rig Power System</b>	
	Main Drilling Unit Engine	
	Make / Model:	Detroit Engine DDC/MTU
	Quantity:	1
	Prime Power (HP):	760
	Engine Speed (rpm):	1800
	Auxiliary air supply:	Kaeser ASD 37
	Maximum Pressure:	11 bar
	Maximum output:	110 cfm or 3.1 m <sup>3</sup> /min
	Additional equipment	110 cfm or 3.1 m <sup>3</sup> /min
	Additional equipment	Kaeser TC36 air dryer and airline lubricators
	Power supply unit:	1 x Genset 550kVA, 400 volts at 50Hz. Containerised and silenced
	Power Distribution:	Containerized distribution unit.
<b>A.4</b>	<b>Fuel Supply</b>	
	Rig fuel tank	2 x 110 gal (415 lt) fuel tanks.
	Rig site Diesel fuel tank:	1 No. 30,000 litre bunded tank, transfer pump and supply manifold. Automated Monitoring with GSM Sim card alerts to fuel companies and management.
	Automated feed system	Rig, Pumps and Rig generator feed from auto fuelling system.
	Average fuel consumption	130-210Lt per hour
<b>A.5</b>	<b>Hydraulic System</b>	
	Quantity hydraulic fixed pumps:	3
	Quantity hydraulic variable pumps:	7
	All hydraulic circuits are filtered to:	7 microns
	System capacity:	798lt (210gl)
	Remote Hydraulic Supply Separate hydraulic pump and controls plumbed to outlet ports with twin quick connect fittings are mounted to provide hydraulic oil supply for customer's auxiliary equipment	
	Maximum Oil Flow:	58 gpm
	Maximum Pressure:	5000 psi
	Horsepower Requirement:	175 hp approx.

Ref	Item Description	Specification
<b>B.</b>	<b>DRILLING EQUIPMENT</b>	
<b>B.1</b>	<b>Telescopic Mast</b>	
	Mast height (Max):	23.7m (78')
	Top drive travel:	50ft
	Gross nominal capacity:	200,000 lb (90,909 kg)
	Pull-down capacity :	32,000 lb (14,545 kg)
<b>B.2</b>	<b>Substructure</b>	
	Trailer Mounted, Highly mobile configuration complete with automated pipe handler	
	Full length Sub Base:	16.5m long x 600mm high x 3m wide Weight: 25 Tonne
	Clear height below rotary beams:	3.96m (13ft) Adjustable
<b>B.3</b>	<b>Feed Line System</b>	
	Line size :	2 x 27" PD Nylatron 1 1/2" OD 8 x 26 Wire Rope
	King strength :	128.2 tons per strand
<b>B.4</b>	<b>Top Head Drive System</b>	
	Pipe Handling:	Automated
	Hoist Capacity:	200,000 lb (90,909kg)
	Hoist Speed:	0 - 130,000 lbs. @ 100 fpm 131,000 lbs. - 180,000 lbs. @ 75 fpm 181,000 lbs. - 200,000 lbs. 25 fpm
	Pulldown Capacity:	32,000lb (14,545kg) @ 200fpm
<b>B.6</b>	<b>Rotary Table</b>	
	Mast Base:	30" (762mm)
	Spider Bowl:	Full Circle (FCR)
	Slip type:	Adapts Cavins Model F Power Slip 2" OD to 8" OD
	Range:	Pneumatic
	Power:	400,000lbs


Ref	Item Description	Specification
<b>C.</b>	<b>RIG FLOOR HANDLING EQUIPMENT</b>	
<b>C.1</b>	<b>Automated Pipe &amp; Casing Handling System</b>	
	Tubular Length:	13.11m (43ft)
	Max Tubular Dia:	30"
	Slide Travel (ft):	8
	Load Height (inch):	42"
	Size range of Drill Pipe	Up to 10 <sup>3/4</sup> "
<b>C.2</b>	<b>Pipe Racking</b>	
	Rig racks	Approximately 38 pcs of 4 1/2" OD upset range 2 or 3 drill pipes in one layer.
	Separate Racks	4 No. 8.5m long x 1.07m high
<b>C.3</b>	<b>Power Breakout With slips</b>	
	Range:	4 1/2" - 8" diameter
	Maximum clamp force:	Adjustable to 47,000 lb
	Maximum make-up torque (ft lb):	53,000
	Maximum break-up torque (ft lb):	53,000
	Mobile Breakout system (Scorpion)	1 unit
<b>C.4</b>	<b>Bit Subs</b>	
	Quantity:	1
	Size (inch):	4 1/2" to 12 1/4"
<b>C.5</b>	<b>Bit Subs</b>	
	Load capacity (lb):	2,400 kg (5,300 lb)
	Drum Speed:	151 – 165 fpm
	Located at:	Top right hand side of the outer mast
	Type of brakes:	Automatic spring applied, hydraulic release
	Capacity:	150ft (46m) of 1/2" HSLR cable
<b>C.6</b>	<b>Survey Winch</b>	
	Capacity:	3,300m( 10,826ft) x .092" survey line
	Max load rating	3,000lbs
<b>C.7</b>	<b>Drill Collar Safety Clamp</b>	
	Quantity:	2
	Size range (inch):	Up to 9 5/8"

Ref	Item Description	Specification
<b>D.</b>	<b>MUD SYSTEM</b>	
<b>D.1</b>	<b>Mud Pumps</b>	
	Mud pump make / model:	White Star /WS 1,000 Quadraplex
	Quantity:	2
	Output (Combined) GPM/LPM:	6" liners - 1,410 GPM (5,336 LPM)
	Liner sizes available (inch):	4" - 6 1/2"
	Pump Motor:	Detriot Diesel corporation
	Motor rated capacity (HP):	1,050 HP
	Pulsation dampener make / type:	White Star 7.5 gallon (Hydril type)
	Pressure rating (psi):	5000 psi
<b>D.2</b>	<b>Stand Pipe</b>	
	Stand pipe type / size (inch):	4"
	Pressure rating (psi):	5,000 psi
	Gauge make / type	Perma-CAL 3 1/2" ID x 5,000 psi
<b>D.3</b>	<b>Solids Control Equipment</b>	
	<b>Shale Shaker</b>	
	Make / Model:	Mud Data 803 SD Linear Motion Shale Shaker
	Quantity:	2
	Vibrating Strength:	Up to 8.0G (Adjustable)
	Treating capacity (each)	444 GPM (2,000 LPM)
	Screen Area:	2.8m <sup>2</sup>
	<b>Centrifugal Pumps</b>	4" x 18
	Model:	Mission magnum
	Quantity:	2 x Mix pumps
	Flow:	2 x Charge Pumps 1 x Trip tank pump 1 x Drill water pump
	Degasser	Poor boy
<b>D.4</b>	<b>Mud Mixing</b>	
	<b>Mud Agitator</b>	
	Model:	Siemens
	Quantity:	7
	Motor Power:	5KW
	Speed:	95 RPM
	Impeller diameter:	40"
<b>D.5</b>	<b>Mud Tanks</b>	
	Total system volume active, reserve	640bbl
	Mud tank: Shaker	160 bbl
	Mud tank: Settling	155 bbl
	Mud tank: Slug/Pill:	77 bbl
	Mud tank: Active:	155 bbl
	Mud tank: Pre-mix:	77 bbl
	Trip tank:	15 bbl
<b>D.6</b>	<b>Water Tanks</b>	
	Drilling water Storage tank:	22,000lt (160bbl)
	Fire Water tank:	44,000lt (280bbl)

Ref	Item Description	Specification
<b>E.</b>	<b>BLOWOUT PREVENTER, CONTROL EQUIPMENT AND ASSOCIATED EQUIPMENT</b>	
<b>E.1</b>	<b>Annular Preventer</b>	
	Annular Preventer make / type:	White Star /WS 1,000 Quadraplex
	Size:	11"
	Working pressure (psi):	5,000 psi
<b>E.2</b>	<b>Ram Type Preventer</b>	
	Double ram BOP make / type:	Hydril double 11" x 5000 psi
	Size:	11"
	Working pressure (psi):	5,000 psi
<b>E.3</b>	<b>Rams for Ram Type Preventer</b>	
	Variable Rams	
	Blind Shear Rams 11"	1 No. set
	Fixed-Bore Pipe Rams	1 No set of each 3 1/2"
<b>E.4</b>	<b>Accumulator Unit and Controls</b>	
	Accumulator Unit make / type	210 Gallon, 5 station, By-Pass Valve, Air Actuation with Remote Panel
	Number / total capacity of bottle (gal):	12 x 11gl bottles = 132gallon
	Test Pump	1 No 10,000 psi Single Pump Hydrostatic Portable Test Unit with ITT Barton Chart Recorder
<b>E.5</b>	<b>Choke Manifold</b>	
	Choke manifold make / type:	1 No 3 1/8" DMS 5,000 psi with two manual adjustable chokes
	Pressure rating (psi):	5,000 psi
	Drilling chokes quantity:	2 No.
<b>E.6</b>	<b>Coflexip Hose for BOP / Choke Manifold</b>	
	Fire proof, acid resistant, steel-banded flexible hose for connecting the BOP stack to the choke manifold.	3" x 5,000 psi with 2 No 3 5,000 psi Mc Evoy valves and choke hose
<b>E.7</b>	<b>Top Hole Diverter Equipment</b>	
	Drilling Spool with 8" outlet, 60ft of 8" steel flanged pipe work. Steel containment tank	

<b>G.</b>	<b>DRILL STRING</b>	
<b>G.1</b>	<b>Drill Pipe</b>	
	3 1/2" S135 Range II Premium NC38	220 Joints - 2,000m (6,500ft)
<b>G.2</b>	<b>Heavy Weight Drill Pipe</b>	
	5" x 4 1/2" IF Hard Banded – Range II	6 No. (180ft)
	3 1/2" x 3 1/2" IF Hard Banded – Range II	6 No. (258ft)
<b>G.3</b>	<b>Drill collars</b>	
	6 3/4" x 4 1/2" IF – Range 2	8 No. (248ft)
	4 3/4" x 3 1/2" IF – Range 2	12 No. (372ft)

Ref	Item Description	Specification
H.	<b>DRILLING INSTRUMENTATION AND CONTROL EQUIPMENT</b>	
H.1	<b>Drillers Console</b>	
	<b>Schramm iControl</b>	
	<ul style="list-style-type: none"> <li>• Weight on bit (WOB) in pounds (lbs).</li> <li>• Rotation speed in revolutions per minute (rpm).</li> <li>• Rotation torque in foot pounds (ft-lbs).</li> <li>• Bit depth in feet (ft).</li> <li>• Line pressure.</li> <li>• Air compressor sump pressure.</li> <li>• Air compressor temperature.</li> <li>• Hydraulic oil temperature</li> <li>• All engine information &amp; diagnostic codes.</li> <li>• All drill rig diagnostic codes in easy to read text.</li> </ul>	

I.	<b>OTHER EQUIPMENT – NOT INCLUDED IN STANDARD DAY RATE</b>	
I.1	<b>Air Drilling Package(Not included in day rate)</b>	
	<b>Schramm iControl</b>	
	<ul style="list-style-type: none"> <li>•</li> </ul> 	

Ref	Item Description	Specification
J.	<b>AUXILIARY / MISCELLANEOUS EQUIPMENT</b>	
J.1	<b>Rig Crew</b>	
	Day Shift	
	Night Shift	
J.2	<b>Potable Water storage</b>	
J.3	<b>Accommodation Power and Lighting</b>	
J.4	<b>Communication System</b>	
J.5	<b>Office and Welfare facilities</b>	
J.6	<b>Fork Lift</b>	

Ref	Item Description	Specification
J.7	Storage Units	
		•
	Spares Store 1 (Rig Spares)	1 No. 20ft x 8ft container
	Spares Store 2 (Pump Spares)	1 No. 20ft x 8ft container
J.8	Fire Fighting	
J.9	Breathing Apparatus	
J.10	First Aid Equipment	
J.11	Other Equipment	
	Cellar pumps:	4" Electric powered pump
	Wilden Pumps	2 No. 2" Air driven mobile pumps
J.12	Safety Equipment	