

# MOMENTUM RIG 5



**RIG TYPE AND NUMBER:**

Momentum 5

**AGE OF RIG:**

New 1998 delivered, Refurb 2012

**DATE OF COMPLETION OF LAST CONTRACT:**

May 2003 – Dec 2009

	<b>DRAWWORKS</b>	
	Make and Model	Cooper 4212-42-18
	Rated Input Horsepower	750HP
	Auxiliary brake	Pharmac
	Crown Protection	Yes
	Automatic Drilling Control	No
	Power Source	
	Drill Line	10
	Sand Line	-
	<b>RIG DRIVE AND/OR POWER UNITS</b>	
	Make and Model of Engines	GMC 8V 92T
	Make and Model of Generators	NA
	Make and specification of SCR unit	NA
	Power available to Drawworks	750HP
	Power available to Rotary/Top Drive	750HP
	Power available to Pumps	Independent each pump
	<b>MAST AND SUBSTUCTURE</b>	
	Make, height and base	Cooper 118 ft.
	Floor height	Variable max. 16 ft.
	Clearance from underside of rotary beams to ground level	8 to 15 ft.
	Casing capacity and simultaneous set back capacity/ Pipe Racking capacity	4½" pipe 10,000 ft.
	Rated static and hook load capacity	365,000 lbs
	Crown block make and number of sheaves available	Lee Eng. 5 sheeves
	Traveling block make and rating	McKissick 200mt.
	Stabbing board	Yes
	<b>WINCHES</b>	
	Quantity, make and rating of winches	2-Braden 306 mt.
	Man riding capability	See above
	<b>MUD PUMP NO:1</b>	

	Number, make and Model	Gardner Denver PZ-8
	Powered by	Caterpillar D-398
	Pulsation Dampeners	Hydril K-20
	Charging pumps	5x6 Harrisburg
	Liner sizes	5½ - 6"
	Stroke counter and totalizer	Yes Martin Decker
	<b>MUD PUMP NO:2</b>	
	Number, make and Model	Gardner Denver PZ-8
	Powered by	Caterpillar D-398
	Pulsation Dampeners	Hydril K-20
	Charging pumps	5x6 Harrisburg
	Liner sizes	5½ - 6"
	Stroke counter and totalizer	Yes Martin Decker
	<b>MUD PUMP NO:3</b>	-
	Number, make and Model	-
	Powered by	-
	Pulsation Dampeners	-
	Charging pumps	-
	Liner sizes	-
	Stroke counter and totalizer	-
	<b>ROTARY TABLE</b>	
	Size, Make and Model	17½ IDECO
	Static Load Rating	325 mt.
	Input HP	700 HP
	Powered by	Carrier
	Bushing inserts	1-2-3
	<b>SWIVEL</b>	
	Make and Model	IDECO 200mt
	<b>ROTARY HOSES</b>	
	Number size and rating	1-3" x 65ft. 5,000 psi
	<b>STANDPIPE</b>	
	Size and rating	4" x 5,000 psi
	<b>GEOLOGRAPH</b>	
	Number, make and type	Totco 5 Pen
	<b>DRILL PIPE</b>	
	Quantity of 5" or 4 ½" weight, grade and tool joints of drillpipe	4 ½" x 2000 meters G-105
	Quantity of 5" or 4 ½" weight, grade and tool joint of HWDP	12 joints
	<b>DRILL COLLARS</b>	
	Quantity 8" DC's, weight, grade and tooljoint	8"x60Reg. - 6 joints
	Quantity 8" Pony DC's, weight, grade, tooljoint and length	3 meter 60 Reg.

Quantity of 6 ½" DC's, weight, grade and tooljoint	22 joints 4 ½ I.F.
Quantity 6 ½" Pony DC's, weight, grade, tooljoint and length	3 meter 4 ½ I.F.
<b>KELLY</b>	
Number, size and length	2-5 ¼ x 40'
Kelly Saver Subs	Yes
<b>KELLY SPINNER</b>	
Make and Model	Graychain 3570
<b>TOP DRIVE</b>	Bowen
Make and model	S250 with track
<b>SUBS</b>	
Bit Subs (bored for Float)	3 ½ IF Box x 3 ½ Reg. Box (3) 4" IF Box x 4 ½ Reg. Box (1) 4 ½ IF Box x 4 ½ Reg. Box (1) 60 Reg. Box x 4 ½ IF Box (1) 60 Reg. Box x 60 Reg. Box (1)
Float subs	-
Crossover Subs	Yes for contractors string
12 ¼" near bit stab (bored for float), quantity, make and type	2 Drilco Sleeve Type
12 ¼" string stab, quantity, make & type	3 Drilco Sleeve Type
8 ½" near bit stab (bored for float), quantity, make and type	2 Drilco Sleeve Type
8 ½" string stab, quantity, make and type	3 Drilco Sleeve Type
<b>BLOWOUT PREVENTERS</b>	
BOP stack	11"x5000 Cameroo Type U
BOP ram sizes	Double Ram BOP
BOP Control Panel	
Remote Control Panel	
Accumulator Unit, make and capacity	
Control lines	
Drilling Spool	
Choke Manifold	
Kill and Choke valves	
Auto Choke	
Diverter system	
BOP handling system	
BOP test stump and test pump	
BOP adaptor and spacer spools	Spool 7 <sup>1</sup> / <sub>16</sub> 5m Flange x 11" SM 0.4m

		Spool 11"5m Flange x 11" 3M flange 0.41m DSA-7 <sup>1</sup> / <sub>16</sub> 5m x11"5m 0.12m DSA-11" 3m x 11" 5m 0.13m
	BOP handling system	Yes
	<b>CONTROL VALVES</b>	
	Inside Blowout Preventers	1- packard
	Kelly valves	2-Hydril
	Upper Kelly valves	1-Omesco
	Drill string float valves, quantity, make and type.	
	<b>FISHING EQUIPMENT</b>	
	Overshots	Bowen 5 <sup>3</sup> / <sub>4</sub> -5 <sup>7</sup> / <sub>8</sub> -7 <sup>3</sup> / <sub>4</sub> -10 <sup>1</sup> / <sub>8</sub> 150 ser.
	Junk Subs	2-6" Bowen
	Taper Taps	1 Bowen 2 <sup>3</sup> / <sub>16</sub> - 3 <sup>11</sup> / <sub>16</sub>
	Safety Joints	-
	Spears	-
	Magnets	1-Bowen Type G 50
	Fishing Jar, quantity, size make and type	7 <sup>3</sup> / <sub>16</sub> Type 2 4 <sup>3</sup> / <sub>4</sub> -Type Z Bowen
	Impression Block	
	<b>WIRE LINE MEASURING</b>	
	Wire line Measuring assembly	Mathey 25,000' 0.092 wire
	Survey tool, type	8° - 16°
	<b>HANDLING TOOLS</b>	
	Drill Pipe Slips	3 <sup>1</sup> / <sub>2</sub> -5"-4 <sup>1</sup> / <sub>2</sub> BJ
	Drill Collar Slips	8" 6 <sup>1</sup> / <sub>2</sub>
	Casing Slips	Varco 7"-90 -130 -5 <sup>1</sup> / <sub>2</sub>
	Drill Pipe Elevators	5"-4 <sup>1</sup> / <sub>2</sub> -3 <sup>1</sup> / <sub>2</sub>
	Drill Collar Elevators	Lift sub with D.P. Elevators
	Drill pipe Tongs	BJ-Type B 3 <sup>1</sup> / <sub>2</sub> -13 <sup>3</sup> / <sub>8</sub>
	Drill Collar Safety Clamps	4 <sup>3</sup> / <sub>4</sub> to 9 <sup>1</sup> / <sub>2</sub>
	Elevator Links	BJ- 72"-250 tons 118"-350 Tons
	Bit Breakers	8 <sup>1</sup> / <sub>2</sub> -17 <sup>1</sup> / <sub>2</sub> -12 <sup>1</sup> / <sub>4</sub> -6 <sup>1</sup> / <sub>8</sub>
	Lift Subs	Yes
	<b>MUD EQUIPMENT</b>	
	Suction tanks, quantity and size	Active 2 -60 m <sup>3</sup>
	Mixing tank, size	
	Shaker tank, size	See Active 9 m <sup>3</sup>
	Trip tank, size	5m <sup>3</sup>
	Reserve tank, size	2-60 m <sup>3</sup>
	Chemical mixing barrel	200 Ltrs.
	Transfer pumps, quantity, make and type	
	Shale Shakers, quantity, make and type	2-Tri Flo Dual 146

	Centrifuge, quantity, make and type	-
	Hopper system	1-Tri Flo Hi Volume 6 x 5 mission Pump
	Degasser	Trio Flo-800 Ingersol Rand
	Degasser Pump	Inger Sol Rand
	Poor Boy Degasser	Yes - with 6" to flare
	Pit Volume Level Indicator and Flow show system	
	Flow Nipple and Flow Line for BOP Stack	14" nipple 12" flow line
	Cellar pumps	1-Wilden air operated
	Mud bucket	OTECO
	High pressure wash down gun	Electric - Karcher
	Mud testing kit	Basic
	<b>ELECTRIC GENERATING AND LIGHTING SYSTEM</b>	
	Generators	2- Marathon 350 kVA- 380 Volts
	Lighting system	Rig Lts
	<b>CAMP EQUIPMENT</b>	
	Office for Contractor's and Company supervisors	3 Caravans 1-Self contained office/bedroom for Rig Tool Pusher 1 self contained office/bedroom for Co. man 1 Self contained office/bedroom for Co.,PE/Geologist
	Accommodation unit for Company personnel (min 14 persons)	Yes 90 man camp
	Sleeping units for Company and Contractor's supervisor	3 persons
	Shower, WC units	Each room
	Kitchen and dining room	Yes for 24 men
	Rest room for Crews	Yes
	<b>MISCELLANEOUS</b>	
	Pipe Racks and Bins	2 sets
	Drill Water Storage Tanks, quantity and size	1 - 60 m <sup>3</sup>
	Drill water supply/ transfer pumps	Yes
	Drinking water tanks, quantity and size	2-500 bbls
	Fuel Storage Tanks, quantity and size	Camp = 15m <sup>3</sup> Rig 60,000 Lts.
	Road Transportation and Rig up Equipment	
	Crane	Mobile 25 ton
	Forklifts/ front end loaders	
	Four wheel drive units for Contractor's use	
	Welding and Cutting Equipment	
	Internal Rig Communication System	Intercom
	Contractors External Communications System	TBA

	<b>SAFETY SYSTEM</b>	
	Fire Extinguishers and Other Safety Equipment as required by Contractor's Insurance Underwriter, Local Custom and Regulations	1- Fixed Fire Pump 114 m <sup>3</sup> /Hr 2- 20m Fire Hose 3- 25 Fire Extinguishers, Co <sub>2</sub> dry powder.
	Portable gas and H <sub>2</sub> S Gas Detectors	2- Draeger H <sub>2</sub> S-Co <sub>2</sub>
	Personal Protective Clothing	Yes
	First Aid Facilities	Yes at Camp and Rig Site
	Eye Wash Stations	Rig floor - Mixing Area
	<b>OIL BASED MUD EQUIPMENT</b>	To be agreed

**RIG MOVE DATA**

	Loads to Move Rig	40
	Loads to Move Camp	19
	Weight of Single Heaviest Load	30 ton Derrick Set
	Weight of Single Heaviest Lift	Mud Pump - 20 tons
	Date of last major overhaul of Prime Movers	
	Rig site Footprint	Attached
	Camp site Footprint	Attached