

MOMENTUM RIG 4



RIG TYPE AND NUMBER:

Wilson 75. Carrier Drive "Momentum Rig 4"

AGE OF RIG:

Man. Dec. 1981, Refurb. July. 2005

DATE OF COMPLETION OF LAST CONTRACT:

1	DRAW WORKS	
a	Make and Model	Wilson 75
b	Rated Input Horsepower	1000 hp
c	Auxiliary brake	Parmac V80
d	Crown Protection	Crown-O-Matic
e	Automatic Drilling Control	No
f	Power Source	2 each CAT 3408 Engines
g	Drill Line	1 1/8"
2	RIG POWER GENERATION	
a	Make and Model of Engines	2 each CAT C-15 (500 HP)
b	Make, Model & Rating of Generators	2 each 350 KW
c	Voltage Available	460 V – 208 V – 110 V (60 Hz)
d	Power available to Drawworks	1000 HP
e	Power available to Rotary Table	400 HP – Continental Emsco 20.5
f	Power available to each Mud Pump	800 HP – PZ 8
3	MAST AND SUBSTRUCTURE	
a	Make, type, height	Wilson Telescoping Mast. 116 FT
b	Floor height	16 FEET
c	Clearance from underside of rotary beams to ground level	14.5(12.5ft Below Rotary Beams)
d	Rated static and hook load capacity	358,000 lbs.
e	Crown block make and number of sheaves available	Wilson. 7 Sheaves
f	Traveling block make and rating	G & D 200 TON, W/BJ UNIMATIC 6150 HOOK
4	TOP DRIVE SYSTEM	
a	Manufacturer	NATIONAL
b	Model	TD 250HTP
c	Year of Manufacture	Newly Rebuild July 2005
d	Hoist Capacity	250 Tons
e	Input Horsepower	400 HP
f	Maximum Torque	33 000 ft/lbs break boost
g	Maximum Continuous (Drilling) Torque	21 000 ft/lbs
h	RPM Range	0-200 rpm
5	WINCHES	
a	Quantity, make and rating of winches	1) INGERSOLL RAND, Model # D6U, 4Ton. (Rigfloor) 2) INGERSOLL RAND, Model # K6UL, 5Ton. (Rigfloor)

		3) INGERSOLL RAND, Model # HUL40, 2 Ton.(Monkeyboard)
6	MUD PUMP 1	
a	Number, Make and Model	Gardner-Denver PZ 8
b	Powered by	CAT 398
c	Pulsation Dampeners	Continental Emsco K20
d	Charging pumps	DL 5x6, 40 hp ea
e	Liner sizes	5 ½" - 6 1/4"
f	Stroke counter and totalizer	Martin Decker 7 Pin Recorder
7	MUD PUMP 2	
a	Number, Make and Model	Gardner-Denver PZ 8
b	Powered by	CAT 398
c	Pulsation Dampeners	Continental Emsco K20
d	Charging pumps	DL 5x6, 40 hp ea
e	Liner sizes	5 ½" - 6 1/4"
f	Stroke counter and totalizer	Martin Decker 7 Pin Recorder
8	ROTARY TABLE	
a	Size, Make and Model	Continental Emsco 20.5
b	Static Load Rating	350,000 lbs
c	Input HP	400 hp
d	Powered by	Carrier CAT 3408
e	Bushing inserts	API 1, 2, and 3
8	SWIVEL	
a	Make and Model	Skytop Brewster 6SX
9	ROTARY HOSES	
a	Number size and rating	2 each 3" x 55' Long. 5000 psi
10	STANDPIPE	
a	Size and rating.	4"- 5000 psi
b	Standby Hose	(1) 3"55 ft. Long
11	DRILL FLOOR DATA RECORDERS	
a	Number, make and type	AOI, Model: ADMS. Drilling Instrumentation. Includes - 3 Pit Level Sensors, Trip Tank & Flow. Digital Drillers Display Unit.
b	7 Pin Drilling Recorder	With WOB, SPM 1 & 2, Pump Pressure, ROP.
12	DRILL PIPE	
a	Quantity of 4-1/2" weight, grade and tool joints of drillpipe	275 Joints 4.5"16.6 LB Grade E
b	Quantity of 4-1/2" weight, grade and tool joint of HWDP	30 Joints, 41 PPF HWDP
c	Quantity of 3 ½" weight, grade and tool joints of drillpipe	275 Joints 13.3 LB.FT
d	Quantity of 3 ½" weight, grade and tool joint of HWDP	30 JTS HWDP
13	DRILL COLLARS	
a	Quantity 8" DC's, weight, grade and tooljoint	12, 8"6-5/8 reg spiral DC
b	Quantity 8" Pony DC's, weight, grade and tooljoint and length	1, 3 meter long

c	Quantity 6-1/2" DC's, weight, grade, tooljoint	22, 6-1/4, 4 IF(4-1/2 IF) Spiral DC. XH
d	Quantity 6 1/2" Pony DC's, weight, grade and tooljoint and length.	(1), 3 Meter Long Pony DC
e	Quantity 4-3/4"DC's, weight, grade, tooljoint and length	(22), 4-3/4"OD Spiral 3-1/2 IF
f	Quantity 4 3/4" Pony DC's, weight, grade and tooljoint and length.	(1), 3 Meter Long Pony DC
14	KELLY	
a	Number, size	(1) 5-1/4
b	Kelly Saver Subs	2
15	KELLY SPINNER	
a	Make and Model	Gill, Model 100
16	SUBS	
a	Bit Subs (bored for Float)	(2) each for 8", 6-1/2"and 4-3/4"DC.
c	Crossover Subs	To connect all contractors tubulars, stabilizers and fishing equipment.
17	STABILIZERS	
a	17 1/2"near bit stab (bored for float), quantity, make and type	(1)
b	17 1/2" string stab, quantity, make & type	Two IB
c	12 1/4"near bit stab (bored for float), quantity, make and type	Two
d	12 1/4" string stab, quantity, make & type	Four IB
e	8 1/2" near bit stab (bored for float), quantity, make and type	Two
f	8 1/2" string stab, quantity, make and type	Four IB
18	BLOWOUT PREVENTERS	
a	BOP Stack	13 5/8 x 5000 PSI Double Studed LWS Shaffer
b	BOP ram sizes	3 1/2, 4 1/2, 6 5/8, 7, 9 5/8, VBR: 4 1/2 to 7 VBR, Blind Ram
c	BOP Control Panel	KOOMEY - Type 80, 5 Station Accumulator
d	Remote Control Panel	At Drillers Position
e	Accumulator Unit, make and capacity	KOOMEY - 180 Gallon Capacity
f	Control Lines	1" x 100' Coflex
g	BOP Handling System	Manual
h	BOP Test Stump.	"L"Shaped BOP Carrier with Test Stump
i	BOP Test Pump	Snap onto test stump for BOP. Pnuematic Pump with Chart Recorder.
j	BOP Adaptor and Spacer Spools	1. (4) 13 3/8"BOP Flange 2. (1) Pipe used for spool piece for flanges. 3. (1) DSA 13 3/8" 11".
19	DIVERTER	
a	Diverter System	20"NL Shaffer. With Spool with (2) 8"Outlets with *Hydraulic Diverter Ball Valve.
b	Diverter Lines	(8) 20 ft. sections of 8"Line Pipe Flanged with all nuts and bolts and gaskets.

20	DRILLING SPOOL	(1)
a	BOP cup testers	20", - 106-133ppf 13 3/8"- 68-82ppf 9 5/8 "- 47-53.5 ppf 7"- 26-29 ppf
21	CHOKE MANIFOLD	
a		3 1/16"5000psi Manifold with one manual and one remote operated chokes.
22	KILL AND CHOKE VALVES	
a	Kill	(1) 21/16"Gate Valve (Type FC), (1) HCR Valve, (1) 21/16"Back Pressure Valve
b	Choke	(1) 31/16"Gate Valve (Type FC) (1) 31/16"HCR Valve
c	Auto Choke	Cameron
23	CONTROL VALVES	
b	Inside Blowout Preventers	Gray Type: (1) 4-1/2", (1) 3-1/2"
c	Kelly valves	2 Full Opening for 4-1/2"Drill Pipe. 2 for 3-1/2"Drill String.
24	WIRE LINE MEASURING	
a	Wire line Measuring assembly	Electric - Mathey
b	Survey tool, type	Totco, 0-8 degrees
25	HANDLING TOOLS	
a	Drill Pipe Slips	(2) 4-1/2", (2) 3-1/2"
b	Drill Collar Slips	For 8", 6-1/2", 4-3/4
c	Casing Slips	13-3/8", 9-5/8", 6-5/8", 7"
d	Drill Pipe Elevators	(2) 4-1/2", (2) 3-1/2
e	Drill Collar Elevators	Lift Sub with 4-1/2"Elevator
f	Drill pipe Tongs	Type "B"(1 Set), Heads: 3-1/2 - 13-3/8".
g	Slip type Elevator/Spiders	No
h	Hydraulic Casing Tongs	Yes
i	Drill Collar Safety Clamps	Yes. (1), through 13-3/8".
j	Elevator Links	Yes. 2 Sets.
k	Bit Breakers	17-1/2"- 12-1/4"- 8-1/2"
l	Lift Subs	(6) for 8", (10) for 6-1/4", (10) for 4-3/4"
m	Mud Bucket	Oteco, with discharge into flow line. 4-1/2"& 3-1/2".
26	LOW PRESSURE MUD SYSTEM	
a	Suction tanks,	a - 135 Bbls b - 245 Bbls c - 120 Bbls
b	Mixing / Reserve tanks,	a- 210 Bbls b- 210 Bbls
c	Shaker tank,	95 Bbls
d	Trip tank,	60 Bbls
e	Pill tank,	70 Bbls

f	Chemical mixing barrel	Yes
g	Transfer and mixing pumps, quantity, make and type	2 each 6 x 8 Mission, 75 HP Electric Motor.
h	Hopper system	Twin Capability of handling 1.5Tonne bulk bags.
i	Degasser	Vaccum
j	Degasser Pump size & make	Mission 6 x 8
l	Poor Boy Degasser	Yes
m	Pit Volume Level Indicator and Flow show system	Yes. AOI Digital System.
n	Flow Nipple and Flow Line for BOP Stack	Yes. Flanged to top of BOP and 12"flow line.
o	Cellar pumps	Wilden Pump
p	High pressure wash down gun	Yes. Electric
q	Mud testing kit	Yes
27	SOLIDS CONTROL EQUIPMENT	
a	Shale Shakers, quantity, make and type	2ea, Brandt King Cobra
c	Desander	Yes
d	Desander Pump size & make	5 x 6 Double Life
e	Desilter	Yes
f	Desilter / Pump size & make	5 x 6 Double Life
28	LIGHTING SYSTEM	
a	Camp and office power voltage	220 V & 110 V 60hz
b	Generators	Yes
c	Rig lighting system	Yes, 75 KVA Transformer
d	Additional portable lighting system	Yes.
29	CAMP EQUIPMENT	
a	Office for Contractor's and Company supervisors	Yes
b	Sleeping and office units complete with Bathroom for Company and Contractor's supervisor on rig site	Yes
c	Main camp accommodation for Rig crew and Client.	Yes. Total beds = 92.
d	Camp Generators	Yes.
e	Rest room for Crews at rig site	Yes
j	Kitchen and dining room	Yes
30	MISCELLANEOUS	
a	Pipe Racks and Bins	Yes
b	Drill Water Storage Tanks, quantity and size	2,
c	Drill water supply/ transfer pumps	2, 40 hp centrifugal
d	Drinking water tanks, quantity and size	Yes.
e	Fuel Storage Tanks, quantity and size	Yes. 45, 000 Litres.
f	Road Transportation and Rig up Equipment	Local hire as required
g	Crane	Local hire as required
h	Forklifts/ front end loaders	Yes
i	Winch truck	Yes
j	Welding and Cutting Equipment	Yes

k	Internal Rig Communication System	Yes
l	Rig Air compressor	Yes. Sullair Model# LS-100
31	SAFETY SYSTEM	
a	Fire Extinguishers and Other Safety Equipment as required by Contractor's Insurance Underwriter, Local Custom and Regulations	Yes
b	Portable gas and H2S Gas Detectors	Yes.
c	Personal Protective Clothing	Provided by MTM to rig crews
d	Safety and warning signs	Yes
e	First Aid Facilities	Sick bay/clinic
f	Eye Wash Stations	2
32	OIL BASED MUD EQUIPMENT	
a	Additional Personal Protective Clothing for Oil Based Mud	Yes
b	High pressure wash down gun.	Yes
c	Mud vacuum system	No
d	Drip trays under rig floor	
e	Closed drain system for tanks and pumps	
34	RIG MOVE DATA	
a	Loads to Move Rig	65
b	Loads to Move Camp	29
c	Weight of Single Heaviest Load	75 Tons. Carrier
d	Weight of Single Heaviest Lift	75 Tons. Carrier