

## SCD Rig #226 Completions and Workover Rig

**Description: Irontech, SR242, Drill Rig**

Fitted With: 150,000 Lbs Hook Load Work Over Rig mounted on 10x6 Carrier - Draw Works, Power Swivel Work Floor



<b>SCD: Rig 226 - 150,000 Lbs Completions and Work Over Rig</b>	
<b>Part A - Completions and Workover Equipment Load Out List</b>	
<b>Rig Number</b>	SCD Rig226
<b>Rig Make</b>	Irontech SR242 150,000 Lbs
<b># Loads in package</b>	12
<b>Rig package load list</b>	<b>Load description</b>
<b>1</b>	Rig Carrier
<b>2</b>	Mud pump Trailer
<b>3</b>	Accumulator Trailer
<b>4</b>	Air compressor trailer, N/A
<b>5</b>	Fuel trailer
<b>6</b>	Site Office Trailer
<b>7</b>	Pipe trailer
<b>8</b>	Junk trailer 1
<b>9</b>	Junk trailer 2
<b>10</b>	Junk Trailer 3
<b>11</b>	Cat Walk Trailer
<b>12</b>	Tool House Trailer

Part B - Technical Specifications	
Item	Proposed Specification
<b>1.0 RIG CARRIER</b>	<b>2009 Irontech SR242 150,000 Lbs Completions and Work Over Rig</b>
<b>1.1. MAST</b>	
Height (m) :	Telescoping 79 ft mast
Static hook load (lbs) :	150000 Lbs
<b>1.2 CARRIER</b>	
Type:	Series 60 Detroit Engine Allison Transmission 4700DB GVM – 39T
<b>1.3 HYDRUALIC SYSTEM</b>	Denison > Model T6DRM-B28-3R00-B20A1 Denison > Model T6CM-B17-3R00C1 Denison > Model 32300
<b>1.4 RIG AIR COMPRESSOR SYSTEM</b>	Detroit Model 5004417
<b>1.5 WORKFLOOR</b>	3490 X 2400 Work area Max working height 3360
<b>1.6 UTILITY WINCHES</b>	Offside 1.22T Drillers Side 1.22T
<b>1.7 DRAWWORKS</b>	42" x 10 Chain Driven Draw works
<b>1.8 BRAKE SYSTEM</b>	47" Auxiliary Disc Brake
<b>1.9 TRAVELLING BLOCK</b>	McKissick API-8C 83 SERIES 20" – 75T
<b>1.10 DRILLING LINE</b>	457M x 22mm Grade 6/36 G1770
<b>2.0 WELL CONTROL EQUIPMENT</b>	
<b>2.1 BOP EQUIPMENT</b>	
Diverter Bowl	7 1/16 Non-Rotating Washington with 1360 Rubbers for 2 3/8 ,27/8, 3 1/2
Annular Make / type:	7-1/16" Integrated 5K
Ram type preventors:	7-1/16" Integrated Double gate 5K
Ram blocks:	2-3/8" - 3-1/2"
Kill Line Valve:	MSG 2 1/16 -5K
Blooie line	30m x 6" Fig 602 line + 1.2M Sample Catcher
Test Stump:	7 1/16 3K Flange, 1/2" NPT, 3 1/2 IF Thread Type

Pressure testing unit for BOP:	Yes
FOSV, Kelly Cocks	2 x 2 3/8 EUE P/B 2 x 2 7/8 EUE P/B 2 x 3 1/2 EUE P/B 2 x 2 7/8 IF P/B With 2" 1502 Circ Swedges
BPV / TWCV Running Tool	Universal
<b>2.2 ACCUMULATOR SYSTEM</b>	R&T Controls 3K System 4 Controls 8 x 11Gal Bottles Weatherford T10 Triplex 8 1/2 Air pump
<b>2.2 CHOKE MANIFOLD</b>	
Provision for air circulation and primary jet system	Yes 2" 1502 -15K Plug Valves 2" SMI Adjustable Choke – 1" Seat
<b>3.0 CATWALK / PIPE HANDLER</b>	
Tubular range:	2 3/8" – 5 1/2 " OD
Pipe racks:	Suit range 2 tubulars
<b>4.0 MUD PUMP / TANK (S)</b>	
<b>4.1 MUD PUMP</b>	<b>LW446</b>
Max pump pressure	1,000psi
Max displacement	5.5 bbl / min
<b>4.2 MUD TANK(S)</b>	135bbl
<b>5.0 CIRCULATING IRON</b>	
Standpipe	2" Sched 160 Pipework 2" 1502 + 2" 1502 Pressure sensor outlet
Kill lines	5M – 5K 121 Deg Temp rating
Chicksans	1
Swings	4
Kelly hose	10M – 5K 121 Deg Temp rating
Flare Line	30M 2" 1502 Pipework
Shock hoses	8 x 5M – 5K 121 Deg Temp rating
Spill trays	Yes
<b>6.0 LIFTING &amp; RACKING EQUIPMENT</b>	
Bail arms	1 3/4 x 60" 150T

Tubing elevators	2-3/8", 2-7/8", 3-1/2"		
Rod hook	Trico 25T		
Rod elevators	7/8", 1" Flats		
Dog collars	C Type - 1 3/4 - 5 1/2 "		
Lifting nubbins	2-3/8", 2-7/8", 3-1/2"		
Donkey Dick	25T 38mm Pin		
<b>7.0 HANDLING TOOLS</b>			
Tubing slips	Model CHD Slips size > 2-3/8", 2-7/8", 3-1/2", 4-1/2", 4 3/4 ,5-1/2"		
Tubing power tong	Westco Open Mouth Dual Backups 2-3/8" - 5-1/2"		
Tubing drifts	2 3/8", 2 7/8, 3-1/2"		
Rod power tong	3/4", 7/8", 1", 1-1/4", 1-1/8 Flats		
Rod snap wrenches	7/8", 1" Flats		
Mud bucket	Catchcan with 2 3/8", 2 7/8, 3-1/2" inserts		
Diaphragm pump and hoses			
Torque Wrench (s)	Wrench Torque 3/4" Dr 500-1500Nm 1570mm Model 1500 Norbar Wrench Torque 1/2" Dr 60-300Nm 50-200Lbf.Ft Pro 300 Norbar		
Pressure cleaner	1000L 2750 PSI Diesel – Battery start		
<b>8.0 CLEANOUT EQUIPMENT</b>			
Power swivel	Venturetech XK90 Power swivel – 90T Static / 56T 100Rpm 6000Ft/lbs Torque rating 2 7/8 Elevator Bail type Equipped with 2 3/8, 2 7/8 , 3 1/2 Drive subs with Castigated torque shoulder		
Drill collars	7 x 3-1/8" OD x 9m Drill collars 2 3/8 Reg		
Subs	<b>Connection 1</b>	<b>Connection 2</b>	<b>Length</b>
	2-7/8" EUE BOX	2-7/8" NC 38 PIN	0.25
	2-3/8" HSH BOX	2-7/8" EUE PIN	0.18
	3-1/2" EUE BOX	3-1/2" EUE PIN	0.24

	NC 31 BOX	2-7/8" EUE PIN	0.25
	2-3/8" EUE BOX	NC 38 PIN	0.2
	3-1/2" EUE BOX	NC 38 PIN	0.2
	NC 38 BOX	2-7/8" EUE PIN	0.25
	2-7/8" EUE BOX	2-3/8" EUE PIN	0.12
	2-3/8" EUE BOX	NC 38 PIN	0.095
	NC 31 BOX	2-7/8" EUE PIN	0.18
	NC 31 BOX	3-1/2" EUE PIN	0.18
	3-1/2" REG PIN	3-1/2" REG PIN	0.15
	NC 31 BOX	2-3/8" EUE PIN	0.22
	2-3/8" HSH BOX	2-3/8" EUE PIN	0.23
	2-7/8" EUE BOX	3-1/2" REG BOX	0.46
	2-7/8" EUE BOX	NC 38 PIN	0.21
	2-3/8" REG BOX	1-1/2" AMMTF PIN	0.29
	2-3/8" IF BOX	3-1/2" IF PIN	0.21
	2-7/8" IF BOX	2-7/8" IF PIN	0.43
	2-7/8" IF BOX	2-7/8" IF PIN	0.47
	2-3/8" EUE BOX	2-3/8" REG PIN	0.84
	2-3/8" REG BOX	2-3/8" REG BOX	0.91
	2-7/8" EUE BOX	2-3/8" REG PIN	0.84
	2-7/8" EUE PIN	2-7/8" EUE PIN	0.82
	2-7/8" EUE BOX	2-7/8" REG PIN	0.49
	2-7/8" EUE BOX	2-7/8" EUE BOX	0.91
	2-3/8" REG BOX	2-7/8" REG BOX	0.91
	3-1/2" REG BOX	2-3/8" REG BOX	0.9
<b>9.0 AIR PACKAGE &amp; FLOWBACK</b>			
Compressor	2 x Sullair 1150CFM @ 350 PSI		
Booster	Hurricane Booster M41C – 1800CFM @ 1150PSI		
Sample Catcher Skid	750L Fitted with 2" Lung Pump and hosing to return fluid back to tank		
Scuff tank	Can Organise to Supply		
Frac tank	Can Organise to Supply		

<b>10.0 RIG INSTRUMENTATION</b>	
Rig instrumentation	5K Drill pipe pressure gauge – Totco Style Forum Weight Indicator - TM-515_Deflection Type
Pressure testing gauges	3 x CRYSTAL DIGITAL TEST PRESSURE GAUGE, RANGE 0-5000PSI with data logger
Gas detectors	4 x Micro Clip
<b>11.0 POWER &amp; LIGHTING</b>	
Generator Main	110KVA
Generator Site Office	14KVA
Earthing	As per regulations for all earthing requirements
Rig lighting	Meets API electrical zoning requirements. Set up with sufficient lighting for 24 hrs OP's
Lighting Towers	Can supply
<b>12.0 FUEL &amp; STORAGE</b>	
Diesel fuel storage	<b>10000L</b>
Oil storage	Dangerous goods container holds adequate storage for filters and oils needed to service plant
<b>13.0 SITE OFFICE &amp; CRIB</b>	
Crib room	6 Seat
Workshop	20Ft
Company man office	2500 x 2500
Rig manager office	2500 x 2500
Communications	Yes
First aid room	2500 x 2500
<b>14.0 VEHICLES</b>	
Front end loader / forklift	Minimum 3ton SWL c/w following attachments: Forks, Bucket, Stinger
Crew vehicles	2 x 4x4 vehicles for crew transport
<b>15.0 SAFETY</b>	
<b>H<sub>2</sub>S detection</b>	Portable gas detector at drillers consul at all times
<b>Eye wash stations</b>	Mud Tank Tool House First Aid Room
<b>Mast safety equipment</b>	2 fall arrest safety harnesses with all appropriate fittings and connectors to accommodate largest and smallest Drilling Rig crew. Static line or double lanyard along mast while mast lowered if access required.
<b>First Aid Kits</b>	First aid kits in Drilling Rig site offices and dog house and Services Provider vehicles.
<b>Breathing Apparatus</b>	2 x BA rescue packs
<b>Defibrillator</b>	1 x defibrillators
<b>Stretcher</b>	1 x Stretchers
<b>Inclusive items</b>	
The SCD Rig 006 Rig Package will include the relevant following items as part of the standard operating rate:	
Safety Equipment	1 set of safety signs and flags, fire extinguishers, portable eyewash stations,



	first aid kits, stretcher, breathing apparatus, defibrillators, fall arrest equipment appropriate for working at heights and additional items as requested and agreed by the parties.
Mechanical, electrical and rig floor tools to support rig operations as required.	Yes
Hydraulic pressure testing hand pump	Yes
UHF radios	Yes
<b>Miscellaneous</b>	Stairs, handrails, walkways and safety equipment for all loads meets Australian requirements
	All electrical and lighting meets Australian requirements
	Storage for all oils, filters, environmental spill kits, used oil filter and rags.
	Crossovers for all of rig contractors' tubulars

