

APPENDIX XII: RIG SPECIFICATIONS

Exhibit A - Rig Equipment & Inventory
Ensign Rig 918

1. Rig 918 Specifications

	Component	Description
1.	Draw works	One (1) Ideco Hydrair H-725-D double drum with V-80 Parmac hydromatic brake, PASON automatic drilling control. Max. Single line pull – 50,000 lbs (low gear), 27,000 lbs (high gear). Main drum 18" diameter, grooved for 1 1/8" drilling line Driven by two (2) compounded Caterpillar 3406 DITA engines, with National C-195-80 FH torque converters
2.	Brake (auxiliary) Brake (Main drum)	V-80 Parmac hydromatic brake. With dedicated water supply tank & Two (2) Dedicated feed pumps. 44" diameter x 8-1/2" width.
3.	Substructure	One (1) Ideco 260 ton telescoping substructure. Capacity: 320,000 lbs. on rotary beams and 265,000 lb. on setback area, (loaded concurrently). Height 11 feet for transport, telescopes to provide 16 feet high substructure. Skid mounted on base 11'6" wide x 39'10" long plated on top with 1/4" floor plate and bottom with 1/4" plate seal welded, eliminating need for rig matting. Floor dimensions 14'7 x 22'0", 13'9" rotary beams to ground. Floor plate on set-back area includes mousehole and Rathole. End of set-back area removable and walkways fold to allow fixed moving width of 13'0". Master skid, 10'0" wide x 47'7" long to suit drawworks, compound, engines, wireline spool and mast. Pony Base, 10'0" wide x 47'7" long for master skid support base, with mast hinge support and levelling jack brackets. Plated on bottom with 1/4" plate seal welded, eliminating need for rig matting.

	Component	Description																
4.	Mast	<p>Ideco KM-117-358-AH Kwik Lift telescoping mast, 117' clear height from ground to underside of crown, capable of making mousehole connections, Crown-O-Matic safety device installed.</p> <p>Height above ground: 119 ft.</p> <p>Static hook rating externally guyed:</p> <table><tr><td>10 lines to block</td><td>358,000 lbs.</td></tr><tr><td>8 lines to block</td><td>341,000 lbs.</td></tr><tr><td>6 lines to block</td><td>273,000 lbs.</td></tr></table> <p>Static hook rating internally guyed:</p> <table><tr><td>10 lines to block</td><td>337,000 lbs.</td></tr><tr><td>8 lines to block</td><td>320,000 lbs.</td></tr><tr><td>6 lines to block</td><td>260,000 lbs.</td></tr></table> <p>Wind rating with full pipe setback:</p> <table><tr><td>Internally guyed</td><td>54 mph</td></tr><tr><td>Externally guyed</td><td>75 mph</td></tr></table> <p>Racking platform capacity in 60 foot doubles with 4.1/2 in O.D. drill pipe (6.1/8 Tool joints) 11,760 feet.</p>	10 lines to block	358,000 lbs.	8 lines to block	341,000 lbs.	6 lines to block	273,000 lbs.	10 lines to block	337,000 lbs.	8 lines to block	320,000 lbs.	6 lines to block	260,000 lbs.	Internally guyed	54 mph	Externally guyed	75 mph
10 lines to block	358,000 lbs.																	
8 lines to block	341,000 lbs.																	
6 lines to block	273,000 lbs.																	
10 lines to block	337,000 lbs.																	
8 lines to block	320,000 lbs.																	
6 lines to block	260,000 lbs.																	
Internally guyed	54 mph																	
Externally guyed	75 mph																	
5.	Power system and generators	Two (2) Caterpillar C15, 455 kW, 60 Hz, 3Φ 480V generating sets.																
6.	Rig lighting	<p>Clipsal lighting system with fluorescent lights for mast, buildings and Metal Halide / Sodium lights for floor, pipe racks, cellar, engine, pump and mud tank areas.</p> <p>All lighting fixtures zone rated in accordance with API RP 500 and QLD Petroleum Regulation 1966.</p>																
7.	Casing stabbing board	Ideco manually adjustable casing stabbing board.																
8.	Rotary table –	<p>Ideco LR-275-K, 27 ½” opening with master bushing removed and API dimension from centre-line table to centre-line drive sprocket of 53.1/4”.</p> <p>Serial no. 648.</p> <p>Load Rating:</p> <table><tr><td>Dead load</td><td>1,140,000 lbs.</td></tr><tr><td>Rotating load</td><td>710,000 lbs.</td></tr></table> <p>Torque Rating:</p> <table><tr><td>Continuous</td><td>5,060 ft-lbs.</td></tr><tr><td>Intermittent</td><td>10,120 ft-lbs.</td></tr></table> <p>RPM Rating:</p> <table><tr><td>Continuous</td><td>122</td></tr><tr><td>Intermittent</td><td>218</td></tr></table> <p>One (1) set Varco MSPC master casing bushing c/w API insert bowls #2 & #3.</p>	Dead load	1,140,000 lbs.	Rotating load	710,000 lbs.	Continuous	5,060 ft-lbs.	Intermittent	10,120 ft-lbs.	Continuous	122	Intermittent	218				
Dead load	1,140,000 lbs.																	
Rotating load	710,000 lbs.																	
Continuous	5,060 ft-lbs.																	
Intermittent	10,120 ft-lbs.																	
Continuous	122																	
Intermittent	218																	
9.	Travelling blocks & hook	<p>American Block D36E265 unitised Travelling Block and hook.</p> <p>Load Rating: 530,000 lbs.</p>																
10.	Swivel	<p>National P-300</p> <p>Rated Capacity:</p> <p>Working Load: 600,000 lbs.</p> <p>Bearing Load: 386,000 lbs @ 100 RPM</p>																

	Component	Description
11.	Drill line	3,500' of 1-1/8" IWRC, 6 x 19 strand. Single line strength 130,000 lbs. Hoist lines strung: ten (10). Wireline safety factor at max drawworks pull: 2.57.
12.	Catwalk	One (1) set of two (2) pieces - Steel decked unit, 48' long x 6' wide x 3'6" high.
13.	Pipe racks	Six (6) only Tumble type, each 39 ft. long.
14.	Winches	One (1) Pullmaster (M12-3-97-11 Model) Mounted on Drawworks One (1) Ingersoll Rand HU 40, Air Operated Service Winch (mounted on rig floor).
15.	Man rider winch	MR 30 FLG, mounted on rig floor.
16.	Mud pumps	Two (2) Emsco F-800 triplex, 6-3/4" x 9" stroke with Hydril K 10-5000 pulsation dampeners, and Retsco reset relief valves. Max Rated intermittent RPM @ 800 HP: 150 rpm One pump powered by two (2) Caterpillar 3408 TAC engines and other powered by one (1) CAT C27 engine. Total: 800hp. One (1) pump fitted with automatic transmission to allow Slow Circulating Rates at 40spm. Liner sizes I: 6 – 1/2", 2121 psi max, 3.88 gal / stroke , 5- 1/2" , 2600 psi max.
17.	Mud tank and agitator system	One (1) Suction Tank 13.4m long x 2.9m wide x 2.0m deep. On 3 runner oilfield skid overall length 14m, overall height 3.24m with handrails up. Compartmentalised: Suction Tank Compartment #1: 150 bbls. One (1) Harrisburg Model MA-10 agitator. One (1) 2" gun line. Suction Tank Compartment #2: 150 bbls. One (1) Harrisburg Model MA-10 agitator. One (1) 2" gun line. Pill Tank: 72 bbls. One (1) Harrisburg Model MA-5 agitator. One (1) 2" gun line. One (1) Shaker Tank 13.4m long x 2.9m wide x 2.0m deep. On 3 runner oilfield skid overall length 14m, overall height 3.24m with handrails up. Compartmentalised: Settling Tank: 240 bbls. One (1) Harrisburg Model MA-10 agitator. Two (2) 2" gun lines. Desilter Tank: 124 bbls. One (1) 2" gun line. Sand Trap: 19 bbls. Trip Tank: 36 bbls. One (1) 2" gun line. Tanks configured in L-shaped arrangement to minimise earthworks and allow for flexible and timely rig down and mobilise.

	Component	Description
18.	Mud cleaning equipment	Two (2) Derrick FLC 514 Linear & Elliptical Shale Shakers 1 X Harrisburg Style 12 x 5" Cone Desilter. Approx output of 960gpm. Driven by Mission magnum 5"x 6"x11" centrifugal pump complete with 50HP 415V 60Hz explosion proof motor
19.	Mud mixing equipment	Two (2) Harrisburg Model 178 8" x 6" Centrifugal pumps powered by 60 HP, 1750 RPM, 3Φ electric induction motors. Two (2) Independent and interchangeable 10" x 6" mixing hoppers, c/w venturi and discharge system to each suction tank compartment. Three (3) 7.5 HP, Harrisburg Model MA-7-1/2 agitators. 1 each in each suction tank and 1 in the settling tank. One (1) 5 HP, Harrisburg Model MA-5 agitator, located in the pill tank.
20.	H P mud lines and stand pipe	5855 psi rated 4" XXS mud pump discharge & delivery lines. 3-1/2" id 5000 psi working pressure, 10,000 psi test pressure shock hoses. 5855 psi rated 4" XXS standpipe. 3-1/2" id 5000 psi working pressure, 10,000 psi test pressure, 55' long Kelly hose. 2" id 5000 psi working pressure, 10,000 psi test pressure, 30' long Casing washdown hose.
21.	Stand pipe manifold	2" 5000 psi gate valve to kill line. 2" 5000 psi gate valve to bleed off line. Bleed off line runs into return trough. 2" 5000 psi gate valve to casing fill up & Circulating line. 4" 5000 psi Master gate valve. 5000 psi Pressure Gauge (Flanged Parking meter Style) on standpipe. Provision to tie in T-piece for air delivery and non-return valve. T-piece at ground level on delivery line to shock hose allows for 1502 tie in for pressure sensors to choke manifold and drilling console.
22.	Riser and flowline	One (1) 16" top-hole drilling riser, with 12" flowline outlet and 2" trip fill up & 2" Kill line. One (1) 12" enclosed flowline. C/w 12" greenwood union for riser / bell nipple connection and discharge flows directly into shale shaker header boxes. Complete with flowline jetting hose.

	Component	Description
23.	Drillers control panel	One (1) drillers operation console consisting of, 2 x mud pump throttles, 1 x Wabco Mud Pump #1 gear selector, Drawworks brake, Parmac Hydromatic brake, Trip tank pump switch, cathead selector and control for make up / break out. Drawworks & Pump Emergency shutdowns, Drawworks Transmission, Rotary clutch. Hydraulic winch control and .Kelly spinner control (reversible). One (1) display system incorporating, PASON SIDEKICK & PIT-BULL digital display and interface, Martin Decker weight indicator, Rotary torque gauge, Standpipe pressure gauge, Casing pressure gauge, line pull gauge, air pressure.
24.	Auto drilling system	One (1) Pason Automatic Drilling Control System, with operator controllable weight on bit setting.
25.	Well control equipment	PASON level monitoring & Flow show system. Kooimey type 80 BOP closing unit with drillfloor remote control panel. Choke Manifold & HCR choke line valve. Stabbing valves, grey valve. Calibrated trip tank.
26.	BOP Closing Unit	Kooimey Model 120LS type 80. Mounted on the end of the water tank. 3000 psi, 120 gallon accumulator equipped with 16 x 11 gallon bottles. UP2RB5AR model "P" 5 station control manifold. Model UFT-15B triplex charging pump with 15 HP, 60 Hz electric motor. Model U7A26 dual air pump package, capacity 6.4 gpm @ 3000 psi.
27.	Choke manifold	5000 PSI choke manifold with one (1) 3" Swaco 5000 psi hydraulic actuated super choke and one (1) 3" Flocon 5000 psi adjustable manual choke.
28.	Choke line valves	One (1) 4-1/16" Cameron Type "F" 5000 psi HCR Valve One (1) 4-1/16" Cameron Type "F" 5000 psi manual valve
29.	Kill line valves	Two (2) 2-1/16" 5000 psi Gate Valves One (1) 2-1/16" Flo-con check valve
30.	BOP's	1 each Shaffer LWS (or equivalent) double ram Blow Out Preventer. 11" x 5000 Psi studded top and bottom flanges. 4 Outlets 3.1/8" x 5000 Psi flanged. Complete with all studs, nuts and ring gaskets. Rams to suit double gate BOP, complete with spare sealing rubbers: CSO, 4-1/2", 5 1/2", 7", 7.5/8" One (1) Shaffer (or equivalent) spherical Annular Blow-out preventer, 11" x 5000 psi

	Component	Description
31.	BOP control panel	Model A5GRV air operated master remote control panel with 5 valves for operation of BOP's and hydraulic gate valve. 1 valve for operation of bypass valve and 150' remote control hose. Gauges indicating air pressure (system control), manifold pressure and regulated annular closing pressure.
32.	Super Choke Control remote panel	Swaco Super Choke Remote Panel. Air operation over hydraulic actuation. Casing Pressure gauge, Drill pipe Pressure gauge, pump stroke counter display, choke position gauge, hydraulic regulator, air supply valve and choke open/closed lever.
33.	BOP storage & transport system	BOP stored on test stump trolley within the sub-base. BOP removable from subbase for transportation on oilfield skid
34.	BOP testing stump	One (1) 11" 3000 psi BOP test stump c/w test port. Mounted on BOP storage/transport trolley in sub base, driller's side, below open rig floor area. One (1) 11" x 5000psi BOP test stump
35.	BOP handling system	One (1) BOP rail and trolley handling system. Lifting Slings & lifting frame under annular BOP.
36.	BOP cup tester	One (1) Cameron 4" IF type "F" Cup tester.
37.	Drillpipe safety valves	One (1) 4" IF Gray Inside BOP valve. One (1) 4" IF 2-1/4" bore stabbing valve.
38.	Float valves	One (1) Baker SPD Model "F" 4R float valve. One (1) Baker SPD Model "F" 5F6R float valve. Totco Baffle rings to suit the above.
39.	HP pressure testing unit	One (1) Stewart & Stevenson 10,000 psi dual air pump, high pressure test unit. Tank is marked for recording pumped volume.
40.	Flare line	One hundred and fifty (150) feet of 3-1/2" tubing,
41.	Mud / gas separator	One (1) x 48" mechanical "poor-boy" mud-gas separator, c/w domed top & bottom ends, 4" delivery line from choke manifold, 6" mud discharge line to shale shakers, 12' mud seal, 2" fill-up inlet with ball valve, 4" dump valve, 0 to 15psi Pressure gauge, 150' of 8" vent line run from 2' above top of vessel to ground level to flare pit.
42.	Degasser	One (1) centrifugal sea-flow vacuum degasser, driven by 7.5 HP, 1740 RPM, 3Φ electric induction motor.
43.	Drilling adapter spools	One (1) spacer spool, 11" 3000 psi x 11" 3000psi, 23" high. One (1) spacer spool, 11" 5000 psi x 11" 5000psi, 23" high. One (1) mud cross spool, 11" 5,000 psi x 11" 3000 psi, with 2 1/16" x 5000 psi and 3 1/8" x 5000 psi side outlets, 23" high.
44.	Drill string circulating heads	One (1) 4" IF x 1502 X/O circulating sub.

	Component	Description
45.	Stabilisers & Roller Reamers	Nil
46.	Drilling Jars	Nil
47.	Pipe bins	Three (3) only skid mounted 10' wide x 34' long, 3.6' high, for contractors tubulars. One (1) only skid mounted pipe bin for hauling client tubulars and equipment.
48.	Kelly drive, spinner & Kelly	Varco 27HDP pin drive roller Kelly Bushing with 4-1/4" Square rollers and safety guard. One (1) only, Varco Model 6800 hydraulic Kelly Spinner, 1200 ft-lb stall torque. One (1) 4-1/4" square Kelly 38' long, 35' working length. 4" IF tool joint connection bottom.
49.	Kelly cocks	One (1) Hydril Kelly Guard 5000psi unit, 6 5/8" REG L.H. connections upper kelly cock. One (1)MM 4" IF lower kelly cock, with crossovers to suit drill collars
50.	Top drive system	N/A.
51.	Mud saver	Kelly-kan mud bucket with a complete set of sized seals to suit contractors drilling string.
52.	Handling tools for drill string	One (1) set 4 1/2" BJ Drill Pipe Elevators, 350T. One (1) set 4-1/2" Varco SDXL drill pipe slips c/w dies for 4 1/2" pipe. One (1) set 3 1/2" SDML Drill pipe slips One (1) set Varco DCS-R Drill Collar Slips, c/w inserts and dies for pipe diameter 4.3/4" – 7". One (1) Varco MP-R multi-purpose safety clamp, c/w links and dies to suit tubulars 4" – 10-1/2". One (1) set VARCO HT-65 Safety Tongs, c/w jaws to suit 3-1/2" to 11 1/4" tubulars. One (1) set Varco DCS-L Drill Collar slips c/w dies for pipe diameter 6 3/4" to 8 1/4"
53.	Handling tools for casing	One (1) only Farr Model LW-13625 (13 5/8") hydraulic Power Tong. C/w Jaws for 4", 4.1/2", 5 1/2", 7", 7 5/8" 8 5/8", 9 5/8" Casing. Suitable jaws for VARCO HT-65 manual back up tong for 3-1/2" to 11 1/4" tubulars. One (1) only VARCO 5-1/2" SMX 150 Ton Side door Casing elevators One (1) only BJ 5-1/2" 5 Ton Single joint elevators One (1) set 5-1/2" VARCO SDX Casing slips One (1) only VARCO 7" SLX 150 Ton Side door Casing elevators One (1) set 7" VARCO CMS-XL Casing Slips One (1) only 7" 5 Ton single joint casing elevators. One (1) set 9 5/8" AOT SLX 150 ton Side door Casing Elevators One (1) set 9 5/8" 5 ton AOT single joint elevators One (1) set 9 5/8" Varco CMS-XL Casing slips
54.	Handling tools for tubing	Elevators and slips for 2.7/8" tubing.

	Component	Description
55.	Casing thread protectors	1 X 4 ½" Klampon Casing Protectors 3 X 5 ½" Klampon Casing Protectors 2 X 7" Klampon Casing Protectors 3 X 9 5/8" Klampon Casing Protectors
56.	Drillstring, casing and tubing drifts	None
57.	Chrome tubing running equipment	None
58.	Fishing equipment	One (1) only 8 1/8" Bowen F.S. series 150 overshot. One (1) only 6 ¼" Bowen Type "Z" Hydraulic Jar. One (1) only 5" OD Reverse Circulating Junk basket Grapple assemblies to fish down hole equipment furnished by the contractor.
59.	Rig instrumentation and recording system	One (1) Martin Decker type "FS" weight indicator c/w Hercules Model 118 wireline anchor and E542 compression load sensor. One (1) Martin Decker type "FA9" Rotary indicator assembly. Three (3) 2" Martin Decker GM6A pressure sensor units. One (1) Martin Decker H6D (B) series tong line pull indicator system
60.	Kick detection system	Via PASON monitoring system with audible alarms, field programmable for deviation in flow sensor position, mud totaliser, trip tank movement.
61.	Trip tank monitoring	One (1) Trip tank 2.9m W x 1.0m L x 2.0m H. (Capacity: 36 barrels), monitored through PASON system & mechanical trip tank gauge.
62.	Portable gas detector system	One (1) Micro Clip GasAlert portable gas detector with CO, H2S, O2, LEL (combustible) indicators.
63.	Mud testing equipment	Baroid Portable Rig Lab #821, consisting of the following major components: Mud Balance, Marsh Funnel, 1000 ml measuring cup, Stop watch, Filter Press, thermometer, indicator paper and solutions.
64.	Eye wash station & chemical shower	One (1) emergency shower and eye wash station mounted on the suction tank near the chemical mixing area. & Caustic mixing area on Shaker tank. Three (3) portable eye wash stations, located on the rig floor, on the mud tanks and at the tradesmen's workshop.
65.	Rig internal communications system	Five (5) station Gaitronics TS958 rig phone system. Three (3) Uniden 40 channel, handheld UHF radios for Rig Move co-ordination.

	Component	Description
66.	Compressors	ONE (1) Sullair model 10B-25, 125 psi, 105 cfm, rotary screw air compressor driven by 25 HP, 1750 RPM, 3Φ electric induction motor, with 3' diameter x 4' long air receivers. ONE (1) Sullair model 3009A, 125 to 135Psi working pressure, 40 HP, 1765 RPM @ 60 Ht. One (1) Swan SVU-203 Proair Cold start compressor, Powered by Yanmar L70-AE
67.	High pressure washer	One (1) Spitwater WS2S2 water blaster pump, driven by 7 HP, 1450 RPM, 3Φ electric induction motor. Operating pressure 2,500 psi (regulated), max pressure 3,000 psi.
68.	Doghouse	One (1) Dog house 12' x 8', Air-Conditioned with Rig Floor Tool kit, instrumentation and recording devices. Self-elevating on transport skid.
69.	Store rooms & Workshops.	Two (2) 40' skid mounted whitehouse consisting of the following: One (1) 20' x 8' spares and oilfield consumables store. One (1) 10' toolhouse and Derrickhand's parts store. One (1) 10' Air-conditioned Rubber consumables store. One (1) 15' Mechanics workshop One (1) Tradesman's Parts Storage. One (1) welder's workshop. One (1) Electricians Workshop
70.	Rig floor fans	Nil
71.	Wire line unit	SAME AS ITEM 100
72.	Welding equipment	One (1) welders workshop (on Store room skid) complete with toolbox, pedestal drill, vice, bench grinder and work bench. Full set of welder's safety equipment. One (1) 30 foot Steel storage Skid. 1 x Portable Diesel Welding Machine One (1) set of Oxy-Acetylene.
73.	Hand tools	One (1) complete Rig Floor Tool Kit. One (1) complete Mechanic Tool Kit. One (1) complete Electricians Tool Kit.
74.	Fuel storage tanks	One (1) Fuel Storage Tank – 42000 Litres, with oil storage tank. One (1) Day tank – 12,000Ltrs mounted above water tank,
75.	Water storage tanks	One (1) Steel unit 33' x 10' x 8' high (capacity:457 barrels) w/- two (2) only 2 ½" x 2" water pumps mounted power by 10 HP electric motors, mounted on end of skid.
76.	Oil and lubricants storage	Two (2) waste oil tanks, Cap. 600 litres each. One (1) four compartment oil storage tank (Incorporated into 42k fuel storage tank)

	Component	Description
77.	Drill water transfer pump	One (1) 2" x 3" Harrisburg 118 centrifugal pump, driven by 10 HP, 1450 RPM, 3Φ electric induction motor.
78.	Sump water transfer pump	SAME AS ITEM 77
79.	Fire extinguishers	One (1) set extinguishers required to comply with State Regulations, comprising one (1) 50 kg dry powder and an assortment of personal 5 & 9 kg dry powder, CO2 and Foam for rig and camp. 2 kitchen fire blankets and 2 camp hose reels.
80.	Breathing apparatus	Eight (8) Escape set, 10 minute SCBA evacuation breathing apparatus. Located on mud tanks and in dog house.
81.	Safety equipment	One (1) set of safety signs, including site entrance, PPE, non smoking, muster points, parking areas, high pressure, man in mast, overhead work and location specific hazard and warning signs. One (1) derrick escape geronimo. Two (2) lifting stretchers. Two (2) lifting harness. Five (5) safety harnesses with lanyard. Two (2) crown mounted fall arrester, One (1) sub base mounted fall arrester. One (1) sub-base lanyard runner for multiple men safe work on BOP's. One (1) derrick climbing static line. One (1) emergency response plan. One (1) Confined Space Rescue Gantry for Mudtank Rescue. One (1) Confined Space Rescue Stretcher. One (1) Height rescue kit
82.	Alarm system	Personal smoke detectors installed in all rig site sleeping quarters. One (1) Bender IR475LY-60 ground fault monitor. Driller activated horn. Remote horn – Rig Managers office. Emergency shutdown system – located at the Rig managers office.
83.	Onsite forklift	One (1) Volvo L90 front end loader c/w bucket, forklift tynes and lifting jib (stinger).
84.	Contractors vehicles	One (1) ISUZU 4 x 4 utility light truck vehicle fitted with radio communications. One (1) Nissan Patrol 4 x 4 crew wagon fitted with radio communications.
85.	Rig moving equipment	Removed from rig
86.	Garbage Bailer	One (1) Elephants foot grocery carton bailer.
87.	First Aid equipment	One (1) small first aid kit per vehicle and in Rig Manager's office, Dog House & Smoko shack

	Component	Description
88.	Crown Block	Crossover type Crown Block with 1 x 42" diameter and 5 x 36" diameter sheaves to suit 1-1/8" wire rope line. Crown fitted with Bumper block (Timbers enclosed by Mesh) Capacity: 10 lines to block 358,000 lbs. 8 lines to block 343,000 lbs. 6 lines to block 315,000 lbs.
89.	Catheads Contingency catheads if required	Hydraulic, Meyers Engineering make up (IH-564) and breakout (IH-565) Ram type catheads mounted in the mast. REMOVED FROM RIG CIRCA 2002
90.	Elevator Links.	One (1) set Joy 350T elevator links. 108" long x 2-3/4" diameter.
91.	Pipe Spinner	One (1) only Grayspin Mark 10 Suitable for 2-7/8" to 7" tubulars.
92.	Wireline Survey Unit	One (1) only Mathey hydraulic drive retriever unit, c/w 0.092" slickline wire & depth measuring meter.

2. Wellsite Accommodation Specifications

	Component	Description
1.	Offices for Wellsite personnel	One (1) fully furnished well site office unit comprising of 1 x Company Representative office, 1 x Rig Manager's office, 1 x Tradespersons office.
2.	Offices and accommodation for Wellsite personnel	One (1) accommodation unit with one (1) bedroom facility for Rig Manager with ensuite, one (1) bedroom facility for Company Representative with shared bathroom, one (1) bedroom facility for nominated company personnel with shared bathroom. One (1) fully furnished well site accommodation and office unit comprising one office, one mud lab and two bedrooms with shared ensuite for two (2) designated personnel.
3.	Air conditioning equipment	All Wellsite Accommodation & offices equipped with Air-conditioning
4.	Contractors communications system	One (1) Australian Sat Services Sat Phone One (1) Canon MP830 scanner, photocopier. One (1) IBM laptop computer. One (1) Digital camera.
5.	Rig crew rest area	One (1) Skid Mounted unit.
6.	Septic unit	1 x KJM Domestic Wastewater septic unit (or equivalent) at wellsite accommodation unit.

3. Camp Specifications

	Component	Description
1.	Power generation system	Two (2) Caterpillar 3306 diesel prime movers and generator sets fully skid mounted and portable.
2.	Air conditioning equipment	All rooms, kitchen and diner have individual air conditioners with individual controls. Rated for desert conditions.
3.	Kitchen facilities	Fully equipped, self contained kitchen to cater for in excess of 38 persons on a 24 hour basis. CAMP EQUIPMENT: 1 – 38 Person camp fully furnished with shared en-suite facilities per two rooms, fully air conditioned with recreation room. 1 – Camp Support Unit comprising generators, fuel and water tanks and camp equipment
4.	Food storage facilities	1 – Cooler/Freezer/Storeroom. And dry goods storage areas. Ice Machine.
5.	Dining facilities	Dining room is capable of sitting 18 persons at any one time.
6.	Laundry facilities	Full laundry is provided to support the operations. Fully equipped with Maytag washers and dryers.
7.	Toilet & washroom facilities	All rooms in the camp are fully furnished and contain 2 x beds per room with shared ensuite facilities per two rooms. 1 x Spare Toilet and shower
8.	Female facilities	As above. As all rooms have ensuite facilities, all rooms can accommodate either males or females.
9.	Entertainment facilities	Air conditioned: * Recreational room with large screen TV, DVD player and lounge chairs. * Computer room and library
10.	Camp communications system	1 – Full UHF communications system between camp and the rig and support vehicles is provided. Equipped with Telephone & Wireless Internet Access.
11.	Fuel storage tank	14000 Litre tank. Skid mounted.
12.	Potable water storage tank	1 x 24000 litres, 1 x 23000ltrs
13.	General water storage tank	AS ABOVE

	Component	Description
14.	Fire extinguishers	To meet legislative requirements. Each room is equipped with local and remote indicating / alarm 240 V and battery back up smoke detectors.
15.	First Aid equipment	1 – Comprehensive first aid box is maintained in the kitchen area. All camp staff are first aiders.
16.	Septic system	Quick connecting PVC drain lines feed all septic wastes to Operator supplied septic unit

NOTE: At Contractor's discretion any of the foregoing items may be replaced by equipment of equivalent or greater capacity.