

(2) ZJ30C, 1000 HP COMPLETE DRILLING RIGS, LESS TUBULARS (Ref#14064N)

| COMPONENTS | MODEL/CAPACITY | DETAILED SPECIFICATION |
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| A) RIG | ZJ30C | MECHANICAL, TRUCK-MOUNTED RIG, RATED DEPTH: 10000FT |
| B) HOISTING EQUIPMENT | | |
| B.1 DRAWWORKS | JC28/11 | MECHANICALLY DRIVEN. AUXILIARY BRAKE: WCB 324DB WITH CROWN BLOCK PROTECTION FAST LINE TENSION: 61700 LBS/28 TON |
| B.2 CROWN BLOCK | TC180/180T | SIX (6) SHEAVES GROOVE DIAMETER: 1-1/4" CAPACITY: 403200 LBS/180 TON |
| B.3 TRAVELLING BLOCK | YG180/180T | FIVE (5) SHEAVES GROOVE DIAMETER: 1-1/4" CAPACITY: 403200 LBS/180 TON |
| B.4 HOOK | YG180/180T | CAPACITY: 403200 LBS/180 TON |
| B.5 SWIVEL | SL170/170T | CAPACITY: 504000 LBS/170 TON, AGREE TO PROVIDE SMALLER 170T SWIVEL |
| B.6 LINKS | DH225/225T | LENGTH: 3M. SIZE (OD): 3-3/8". |

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| B.7 MAST | JJ170/170T | <p>HEIGHT: 38M (125FT)</p> <p>PIPE RACKING SYSTEM</p> <p>HEIGHT OF MONKEY BOARD: ADJUSTABLE 22/23/24M</p> <p>STATIC HOOK LOAD CAPACITY: 380800 LBS/170 TON</p> <p>SUITABLE FOR INSTALLTION OF TOP DRIVE ? YES</p> | |
| B.8 SUBSTRUCTURE | ZT180/225T | <p>TYPE: SIX POLES SPIRAL-MOUNTED</p> <p>RIG FLOOR DIMENSION: 4.5Mx 6M</p> <p>RIG FLOOR HEIGHT: 6M</p> <p>CLEAR HEIGHT FOR BOP'S: 5.4M</p> <p>SETBACK CAPACITY: 201600 LBS</p> | |
| B.9 MUD COLLECTING TRAY | | <p>INSTALLED BELOW THE DRILLING FLOOR TO COLLECT THE SPILLED DRILLING AND COMPLETION FLUIDS.</p> | |
| B.10 DRILLING LINE | 6x19IPSIWR/28T | <p>DIAMETER: 1-1/8"</p> | |
| B.11 HYDRAUL HOIST | YJZ/3T(5T) | <p>ONE 3T, ONE 5T INSTALLED ON THE TRUCK</p> | |
| C) RIG FLOOR EQUIPMENT | | | |
| C.1 ROTARY TABLE | ZP205/225T(GW83) ZP275/450T(GW84) | <p>TYPE:ZP205</p> <p>MAXIMUM OPENING: 20-1/2"</p> <p>DRIVE TYPE: MECHANICAL</p> <p>MAXIMUM RPM: 300RPM</p> | <p>ZP275</p> <p>MAXIMUM OPENING: 27-1/2"</p> <p>DRIVE TYPE: MECHANICAL</p> <p>MAXIMUM RPM: 300RPM</p> |
| C.2 KELLY DRIVE BUSHING | SQUARE | <p>FOR KELLY SIZE: 5-1/4"</p> | |
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| C.3 KELLY | SQUARE | NUMBER: 1 SIZE: 5-1/4" LENGTH: 36FT |
| D) DRILL STRING | | |
| D.1 DRILL PIPE | N/A | |
| E) POWER PLANT | | |
| E.1 MAIN DIESEL ENGINE | VOLVO | ONE SET ENGINE, TOTAL CAPACITY: 300HP. (220KW/50HZ), TAD1032GE |
| E.2 AUXILIARY DIESEL ENGINE | VOLVO | QUTANTITY: 1, TAD1032GE POWER: 300HP(220KW/50KW) |
| E.3 GENERATOR FOR THIRD PARTIES | VOLVO,CUMMINS | TWO SETS: ONE SET 110V/60HZ WITH CAPACITY OF 175KW,TWD740GE, VOLVO ONE SET 110V/60HZ WITH CAPACITY OF 175KW,TWD740GE, CUMINS |
| E.4 FUEL TANKS | | TWO TANKS ,EACH CAPACITY:20 M ³ FUEL PUMP: 10HP |
| F) MUD CIRCULATING SYSTEM | | |

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| F.1 MUD PUMPS | 3NB1000C/1000HP AMOUNT: 2 SETS | RATED DISCHARGE PRESSURE OF FLUID END: 5000 PSI. DISCHARGE CAPACITY: MAX.601.7GAL/S DRIVE (ENGINE OR MOTOR TYPE & HP AVAILABLE): PZ12V190BG, 882KW(1180HP) PULSATION DAMPENERS: AIR DOME SAFETY VALVES: SHEAR TYPE LUBRICATION SYSTEM: AUTO LUBRICATION COOLING SYSTEM: COOLING PUMP SUCTION LINE: 12" DISCHARGE LINE: 4" STEEL LINE |
| F.2 MUD TANKS | 4 TANKS | TOTAL CAPACITY: 30000GAL (136M3) WITH TRIP TANK |
| F.3 CENTRIFUGAL PUMP | | ONE IN 3# MUD TANK, 60HP |
| F.4 AGITATORS | 2JW15 | EACH CAPACITY: 15HP, QUANTITY: 8 |
| F.5 WATER TANK FOR OPERATION | 42M ³ | C/W PUMP |
| F.6 STAND PIPE | 5000PSI | SIZE 3" (ID) |
| F.7 STAND PIPE MANIFOLD | 5000PSI | SIZE 3" (ID) |
| F.8 ROTARY HOSE | 5000PSI | O.D.4", 50FT |
| G) SOLID CONTROL SYSTEM | | |
| G.1 SHALE SHAKER | DERRICK OR AS REQUIRED BY AE | AMOUNT: 2 |
| G.2 DERRICK Hi-G Dryer | | ONE SET (MUD CLEANER, DESANDER AND DESILTER TOGETHER) |
| G.3 DEGASSER | ZQJ300*2-1.6*0.6; | CAPACITY: 3 m3/min, PUMP CAPACITY: 15HP |

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| G.4 MUD GAS SEPERATOR | YQF-6000; | CAPACITY: 1060L/min |
| H) BLOWOUT PREVENTION EQUIPMENT | | |
| H.1 ANNULAR PREVENTER | ONE SET OF FH28-35 | SIZE: 11" WORKING PRESSURE: 5000 PSI |
| H.2 RAM TYPE PREVENTER | | |
| DOUBLE RAM TYPE PREVENTER | FZ28-70(SINGLE RAM) 2FZ28-70(DOUBLE RAM) | 11" X 10000PSI, WITH BLIND RAM. TOP CONNECTION STUDED & BOTTOM CONNECTION: FLANGE |
| H.3 NOMINAL SPOOLS | | 11"X 5000 PSI |
| H.4 KILL LINE | YG35/5000PSI | NO. OF GATE VALVES: 4 NO. OF CHECK VALVES: 1 TYPE OF GATE VALVES: PFF70/65 MANUAL CONTROL VALVE |
| H.5 CHOKE LINE | JLKGY35/5000PSI | NO. OF HYDRAULIC CONTROL VALVES: 1 NO. OF MANUAL CONTROL VALVES: 1 |
| H.6 CHOKE MANIFOLD | JLKGY70/78/5000PSI | NO. OF HYDRAULIC CONTROL VALVES: 2 NO. OF MANUAL CONTROL VALVES: 6 NO. OF OTHER VALVES: 4 RESOLUTION: 20 PSI |
| H.7ACCUMULATOR UNIT | FKQ6406A | QTY OF SIZE OF BOTTLES: 8x21GAL WORKING PRESSURE: 3000PSI ELECTRIC PUMPS: 1 AIR PUMP: 2 |
| H.8 BOP CONTROL PANELS | FKQ480 FKQ6406A | LOCATED ON THE DRILLER CONSOLE |

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| H.9 UPPER KELLY COCKS | 5000PSI | FOR SIZE OF 4-1/2" CONNECTION: 6-5/8" REG LH WITH ONE STANDBY |
| H.10 LOWER KELLY COCKS | 5000PSI | FOR SIZE OF 4-1/2" CONNECTION: 4-1/2" REG LH WITH ONE STANDBY |
| H.11 TIW | 5000PSI | FOR 4" OR 4 1/2" DP |
| I) RIG INSTRUMENTATION | | |
| I.1 DRILLER'S CONSOLE | | TOTAL WEIGHT – RANGE (LBS): 0---2000KN WEIGHT ON BIT – RANGE (LBS): 0---500KN RPM – RANGE: 0---300R/MIN ROTARY TORQUE–RANGE HIGH AND LOW: 0---40KN.M TONG TORQUE - RANGE (FT-LBS): 0---100KN STAND PIPE PRESSURE - RANGE (PSI): 0---35MPA MUD PUMP STROKE RANGE (STK'S): 0---200SPM TOTAL PIT VOLUME INDICATOR - RANGE (BBL/S): 0---100L/S |
| J) AUXILIARY EQUIPMENT | | |
| J.1 AIR COMPRESSORS | WF-6/3*2 , ESC50-10*2 | TWO SETS IS ESC50-10*2,ONE SET IS WF-6/3*2 |
| J.2 CELLAR PUMP | | 5HP |
| K) SAFETY AND FIRE FIGHTING EQUIPMENT | | |

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| K.1 FIRE EXTINGUISHERS | | <p>DRY POWER EXTINGUISHERS: MFZ, ABC/35KG, 2 AT RIG SITE AND 2 AT CAMPS</p> <p>DRY POWER EXTINGUISHERS: MFZ, ABC/8KG, 6 AT RIG SITE AND 4 AT CAMPS</p> |
| K.2 EYEWASH STATION | | TWO SETS, ONE IS ON RIG FLOOR/ONE ON MUD TANK. |
| K.5 IN-DERRICK SAFETY EQUIPMENT | | <p>THE DERRICK WILL BE EQUIPPED WITH A DERRICK MAN ESCAPE BUGGY WHICH SHOULD BE ATTACHED TO THE DERRICK SIGHT HEIGHT AND CAN BE EASILY RELEASED WHEN NECESSARY. A FULL SAFETY HARNESS SHALL BE WORN WHEN WORKING ON THE DERRICK. SAFETY LINES SHALL BE INSTALLED FROM BOTH DERRICK AND CROWN LEVELS.</p> |
| K.6 PERSONNEL SAFETY APPAREL | | <p>GWDC WILL PROVIDE THE SAFETY HELMET FOR OUR PERSONS WORKING IN THE RIG AND SUFFICIENT APPROVED PROTECTIVE EQUIPMENT SUCH AS EYE PRETECTOR, EARPLUG WELDING MASKS OR GOGGLES, WELDING APRONS, GLOVES, OVERALLS, SAFETY BOOTS, APPROVED RESPIRATORS FOR CHEMICAL HANDLING, ETC.</p> |
| K.7 WARNING SIGNS | | <p>WARNING SIGNS AND EMERGENCY PROCEDURES TO BE DISPLAYED IN ENGLISH AND WILL BE CONSPICUOUSLY DISPLAYED THROUGHOUT THE WORK SITES.</p> |