

**SCHEDULE 1**  
**DESCRIPTION OF RIG EQUIPMENT PROVIDED BY CONTRACTOR**  
**(ATTACHMENT TO EXHIBIT A)**

DATE: NOVEMBER 2018

**CONTRACTOR:** JOMAX DRILLING (1988) LTD. **RIG NUMBER:** 5E  
**DEPTH CAPACITY:** 4,000 **METERS** **WITH** 127.0 **mm DRILL PIPE**  
**BI-FUEL**

**A. DRAWWORKS**

Make: RIGMASTER Model: 1000E Input Power Rating: 842 kw  
Maximum Hoisting Capacity: (Manufacturers) 267000 daN with 12 Lines  
Maximum Hoisting Capacity: (Contractors) 267,000 daN with 12 Lines  
No. of Hoisting Speeds: TWO  
Auxilliary Brake: Type: ELECTRIC Make: ELMAGO Model: 19RD130  
Crown Block Protection: CROWN SAVER: Make: CROWN ALERT Model: A  
Drive Group: Make: G.E. Type: 752HT Input Power Rating: 842 kw

**B. PRIME MOVER**

	<u>ENGINE # 1</u>	<u>ENGINE # 2</u>	<u>ENGINE # 2</u>
Make:	<u>CATERPILLAR</u>	<u>CATERPILLAR</u>	<u>CATERPILLAR</u>
Model:	<u>3512</u>	<u>3512</u>	<u>3508C</u>
Continuous Power - HP (kw) @ 1200 RPM	<u>1 476 (1101)</u>	<u>1 476 (1101)</u>	<u>938 (700)</u>

**C: PRIME MOVERS (Electric Rigs Only)**

Electrical System: NOV - 600 Volt 1800 AMP 4 BAY/3 GENERATORS

	<u>GENERATOR # 1</u>	<u>GENERATOR # 2</u>	<u>GENERATOR # 3</u>
Make:	<u>KATO</u>	<u>KATO</u>	<u>KATO</u>
Model:	<u>AA27673012</u>	<u>AA27673012</u>	<u>AA27675002</u>
Power Rating (kw)	<u>1225</u>	<u>1225</u>	<u>1,050</u>
KVA	<u>1750</u>	<u>1750</u>	<u>1,500</u>

**D. ROTARY TABLE**

Make: EMSCO Model: T 2750 Maximum Table Opening: 698 mm  
Power Available: 842 kw  
Static Load Rating: 445,000 daN  
Rotary Speeds Forward: TWO Maximum RPM: 120 Minimum RPM: 1  
Reverse: ONE Maximum RPM: 30 Minimum RPM: 1

**E. DERRICK**

Make: DRECO Model: M13321-700 Type: CANTILEVER  
Gross Nominal Capacity (Manufacturers): 355,000 daN  
Maximum Hook Load (Manufacturers): 267,000 daN with 12 Lines  
Maximum Hook Load (Contractors): 267,000 daN with 12 Lines  
Racking Capacity: 4,200 Meters of 127 mm Drillpipe  
Height: 40.70 Meters  
Hook to Rotary Table: Distance with Blocks at Crown Stop: 35.20 Meters

**F. SUBSTRUCTURE**

Make: DRECO Model: 53'L X 27'6"W X 23'H Type: BOX ON BOX  
Maximum Table Load (Casing Capacity): 267,000 daN with 166,800 daN Setback  
KB to Ground: 7.33 Meters  
Clear Height for BOP's: 6.48 Meters

**G. TRAVELLING EQUIPMENT**

	<u>CROWN BLOCKS</u>	<u>TRAVELLING BLOCKS</u>	<u>HOOK</u>	<u>BALES</u>	<u>ELEVATORS</u>	<u>TOP DRIVE</u>
Make:	<u>DRECO</u>	<u>GRIZZLY</u>		<u>B.J.</u>	<u>B.J.</u>	<u>VARCO</u>
Model:	<u>6-42" x 1 1/4"</u>	<u>542H350</u>		<u>2 1/4" x 120"</u>	<u>MGG</u>	<u>TDS-10SA</u>
Ld. Rating (daN):	<u>318,000</u>	<u>318,000</u>		<u>318,000</u>	<u>250 Tons</u>	
# of Sheaves:	<u>6+FASTLINE</u>	<u>7 X 42" X 1 1/4"</u>				
API Bearing Rating (daN) @ 100 RPM	<u>318,000</u>					
Min. ID (mm):						

**H. DRILLING LINE**

Rope Diameter: 32 mm Rope Type: 6 x 19 SEALE EIPS  
Core Type: IWRC Nominal Strength: 58,000 daN  
Slip Interval @ 13,000 MegaJoules Cut 18 Meters

**I. DEAD LINE ANCHOR**

Make: QUALITY FAB. Model: Legmount DA75-5 Dead Load Rating: 33,600 daN

**J. MUD PUMPS**

**PUMP # 1**

Make: BAOJI Model: BSF1600 Power Rating: (1600 hp) 1 200 kw  
Available Power to Pump (2): (1000 hp) 745 kw Stroke: 305 mm  
Pulsation Dampner: Make: \_\_\_\_\_ Model: KB75 Precharge: 4,500 kPa  
Liner Sizes Available: \_\_\_\_\_ 152 mm 140 mm  
Minimum Strokes per Minute: \_\_\_\_\_ 1 spm 1 spm  
Maximum Strokes per Minute: \_\_\_\_\_ 120 spm 120 spm  
Max. Manufacturers Rated Press.: \_\_\_\_\_ 26,600 kPa 30,200 kPa  
Max. Contractor's Allowed Press.: \_\_\_\_\_ 26,580 kPa 30,180 kPa

**PUMP # 2**

Make: BAOJI Model: BSF1600 Power Rating: (1600 hp) 1 200 kw  
Available Power to Pump (2): (1000 hp) 745 kw Stroke: 305 mm  
Pulsation Dampner: Make: \_\_\_\_\_ Model: KB75 Precharge: 4,500 kPa  
Liner Sizes Available: \_\_\_\_\_ 152 mm 140 kPa  
Minimum Strokes per Minute: \_\_\_\_\_ 1 spm 1 mm  
Maximum Strokes per Minute: \_\_\_\_\_ 120 spm 120 spm  
Max. Manufacturers Rated Press.: \_\_\_\_\_ 26,600 kPa 30,200 kPa  
Max. Contractor's Allowed Press.: \_\_\_\_\_ 26,580 kPa 30,180 kPa

**K. MUD TANKS**

Tank # 1 # of Compartments: 4 Height: 2.43 m Useable Capacity: 85 m3  
 Tank # 2 # of Compartments: 2 Height: 2.43 m Useable Capacity: 90 m3  
 Tank # 3 # of Compartments: Height: m Useable Capacity: m3

TRIP TANK:  
 Width: 3.65 m Length: .72 m HEIGHT: 2.15 m Useable Capacity: 5.66 m3

Trip Tank Location: UNDER SHALE SKAKER

Trip Tank Pump: Make: MISSION Model: 4" x 3" x 13" w/9" Impeller Type: PEDISTAL 1 7/8"

Pill Tank Volume: 3.7 m3  
 Premix Tank Volume: 87 m3

Total No. of Agitators: 5  
 Number of Mixing Hoppers: 2 Type: 4" FRAMER W 3" X 3/4" NOZZLE  
 6" FRAMER W 3" X 3/4" NOZZLE

**L. SCHEMATIC DIAGRAM (ATTACHED)**

**M. CENTRIFUGAL PUMPS**

	PUMP # 1	PUMP # 2	PUMP # 3
Make:	MISSION	DOUBLE LIFE	HALCO
Model:	MAGNUM		MAGNUM
Size:	2 1/2" x 5" x 6"	2 1/2" x 5" x 6"	2 1/2" x 6" x 8"
Impellor Size:	279 mm	279 mm	279 mm
RPM:	1,175	1,565	1,100
Input Power:	50 HP	50 HP	50 HP

USED FOR:

PUMP # 1 MIXING  
 PUMP # 2 CHARGE PUMP AND AGITATION  
 PUMP # 3 CHARGE PUMP FOR #1 & #2 PUMP

**N. SOLIDS CONTROL**

	SHALE SHAKER #1	SHALE SHAKER #2
Make:	SWACO	SWACO
Model:	MONGOOSE PT	MONGOOSE PT
Contractor will Supply 100 Mesh Screens		
	DESANDER	DESILTER
Make:	NONE	NONE
Model:		
Make of Cones:		
Size of Cones (mm):		
Number of Cones:		
Capacity:		
Operating Pressure:		
Power Available to Run Centrifuge:	100 kw	480 Volts
Breaker Rating:	2 - 100 Amps.	Plug Type: AR1048
Extra Power	1 - 200 Amps.	Plug Type: AR1048

**0. BLOW OUT PREVENTION EQUIPMENT**

	<u>ANNULAR</u>	<u>RAM # 1</u>	<u>RAM # 2</u>	<u>RAM # 3</u>
Make:	<u>SHAFFER</u>	<u>SHAFFER</u>	<u>SHAFFER</u>	<u>SHAFFER</u>
Model:	<u>BOLTED</u>	<u>SL</u>	<u>SL</u>	<u>SL</u>
Type:	<u>SPHERICAL</u>			
Size (mm):	<u>346</u>	<u>346</u>	<u>346</u>	<u>346</u>
Working Press. (kPa)	<u>34,700</u>	<u>34,700</u>	<u>34,700</u>	<u>34,700</u>
Connection Type:	<u>FLANGED</u>	<u>STUDED &amp; FLANGED</u>	<u>STUDED</u>	<u>STUDED</u>
Nace:	<u>YES</u>	<u>YES</u>	<u>YES</u>	<u>YES</u>
Manual/Hydraulic:	<u>HYDRAULIC</u>	<u>HYDRAULIC</u>	<u>HYDRAULIC</u>	<u>HYDRAULIC</u>
Ram Size (mm):		<u>127</u>	<u>127</u>	<u>127</u>
Element Type:	<u>NEOPRENE</u>	<u>NEOPRENE</u>	<u>NEOPRENE</u>	<u>NEOPRENE</u>

**SHOCK HOSES:**

Make: GATES Pressure Rating: 7,500 psi

**ACCUMULATOR**

Make: OFFSHORE SYSTEMS Model: UM2R107H10 Pressure Rating: 20,700 kPa  
 Number of Bottles: 10 @ 58.6 Liters Each  
 Precharge Pressure: 8,400 kPa  
 Accumulator Pressure Operated by Contractor: 20,700 kPa  
 Manifold Pressure: 10,500 kPa  
 Number of Stations: SIX  
 Master BOP Controls Location: ACCUMULATOR HOUSE  
 Remote BOP Controls Location: DOG HOUSE Type: ELECTRIC PLC  
 Number of Pressure Regulators: TWO Make: VALVCON  
 Model: 105766-250367 Location: ACCUMULATOR HOUSE (Both Valves)  
 Number of N2 Bottles: 6 Size: 51 Liters Minimum Pressure 10,500 kPa

**PUMP # 1**

Make: UNION Model: TD30 Type: TRIPLEX  
 Pressure Rating: 20,700 kPa Pump Rate: 65 Liters/Min.

**PUMP # 2**

Make: UNION Model: TD30 Type: TRIPLEX  
 Pressure Rating: 20,700 kPa Pump Rate: 65 Liters/Min.

**HCR VALVES**

Make: CAMERON Model: F.C. Nace Trim: YES  
 Number: TWO Size: 76 mm Pressure Rating: 34,700 kPa

**CHOKE MANIFOLD**

Make: CAMERON Model: DOUBLE GUT LINE F.C. Nace Trim: YES  
 # of Valves: 19 Size: 76 mm Pressure Rating: 34,700 kPa

**CHOKE # 1:**

Make: WILLIS Model: M3 Nace Trim: YES  
 Size: 76 mm Pressure Rating: 34,700 kPa

CHOKE # 2:  
 Make: SWACO Model: SUPERCHOKE Nace Trim: YES  
 Size: 64 mm Pressure Rating: 70,000 kPa

CHOKE # 3:  
 Make: WILLIS Model: M3 Nace Trim: YES  
 Size: 76 mm Pressure Rating: 34,700

IBOP  
 Make: NOV Model: \_\_\_\_\_ Nace Trim: YES  
 Size: 188 Pressure Rating: 70,000

LOWER KELLY COCK:  
 Make: NOV Model: \_\_\_\_\_ Nace Trim: YES  
 Size: 188 mm Pressure Rating: 70,000

STABBING VALVE:  
 Make: HI-KALIBRE Model: 720-585 Nace Trim: YES  
 Number: 2 Size: 133 mm Pressure Rating: 70,000

INSIDE BOP:  
 Make: HI-KALIBRE Model: CHECK GUARD Nace Trim: YES  
 Number: 1 Size: 133 mm Pressure Rating: 70,000

BLEED OFF LINE:  
 Number: 2 Size: 114 mm Nace Trim: YES  
 Pressure Rating: 34,700

KILL LINES:  
 Number: 2 Size: 89 mm Nace Trim: YES  
 Pressure Rating: 34,700

CHECK VALVE:  
 Make: HI-KAIBRE Model: 3350 SERIES  
 Number: 2 Size: 76 mm Pressure Rating: 34,700

MUD GAS SEPARATOR # 1

Type: POORBOY Location: REMOTE - NEXT TO SHAKER TANK  
 Vessel OD: 914 mm  
 Inlet Size: 114.3 mm  
 Outlet Size: 219 mm Line Size to Flarepit: 219 mm  
 Overall Height: 4.00 Meters  
 Distance Above Bottom of Tank: 35.5 cm  
 Design Level: CLASS V

MUD GAS SEPARATOR # 2

Type: POORBOY Location: REMOTE - NEXT TO SHAKER TANK  
 Vessel OD: 914 mm  
 Inlet Size: 114.3 mm  
 Outlet Size: 219 mm Line Size to Flarepit: 219 mm  
 Overall Height: 4.00 Meters  
 Distance Above Bottom of Tank: 35.5 cm  
 Design Level: CLASS V

**P. DRILL PIPE**

No.: 238 JTS. 127 mm 29.03 kg/m GRADE: X-95 API Class: PREMIUM  
 Connections: NC50 Tool Joint: OD: 168 mm ID: 76 mm  
 Hardness Factor: Tube: Minimum HRC: 27 Maximum HRC: 32  
 Tool Joint Minimum HRC: 34 Maximum HRC: 38  
 Hardbanding: X YES    NO Type: 300 XT

No.: 149 JTS. 127 mm 38 kg/m GRADE: X-95 API Class: PREMIUM  
 Connections: NC50 Tool Joint: OD: 165 mm ID: 76 mm  
 Hardness Factor: Tube: Minimum HRC: 27 Maximum HRC: 32  
 Tool Joint Minimum HRC: 34 Maximum HRC: 38  
 Hardbanding: X YES    NO Type: 300 XT

**Q. HEAVIWATE**

No.: 49 JTS. 127 mm  
 Connections: 4 1/2"IF Tool Joint: OD: 156 mm ID: 76 mm  
 Hardbanding: X YES    NO Type: 300XT  
 Stress Relief: NO  
 Boreback: NO

**R. DRILL COLLARS**

Number: 5 JTS. OD: 220 mm ID: 76 mm Connections: 7" H90  
 Number: 17 JTS. OD: 177 mm ID: 61 mm Connections: 5" XH  
 Number:    JTS. OD:    mm ID:    mm Connections:     
 Stress Relief: YES  
 Boreback: YES  
 Spiral: NO  
 Slip Recess: YES  
 Elevator Recess: NO

BIT SUBS: NO. 2 Connections: 4 1/2" REG BOX 5" XH BOX  
 XO SUBS: NO. 2 Connections: 5" XH PIN 5" XH BOX  
 JUNK SUBS: NO. 1 Connections: 4 1/2" REG BOX 4 1/2" REG PIN  
 SAVER SUBS: NO. 2 Connections: 5" XH PIN 5" XH BOX

**S. LIGHTPLANTS**

CAMP  
 Plant # 1 Output: 75 kw Volts 208  
 Plant # 2 Output: 75 kw Volts 208

RIG MANAGER  
 Plant # 1 Output: 100 kw Volts 280  
 Plant # 2 Output: 100 kw Volts 280

RIG  
 Power and Outlets to run 2 Additional Wellsite Units  
 Power Available to run Rental Equipment: 100 kw  
100 Amps 480 Volts 3 Phase

**T. GENERAL**

Drilling Instrumentation: PASON PENLESS

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Automatic Driller: PASON

High Pressure Wash Guns: 2 - MH 32C MAGIKIST

Electric Sump Circulating Pump: 2" & 3" ELECTRIC

Kelly Spinner: N/A

Pipe Spinner: CESCO P700

Kelly Hose: RED-L SIZE: 76 mm Working Pressure: 34,700 kPa

Make Up Tongs Make: WEB WILSON Size: AAX Jaws Available: 4 SIZES

Breakout Tongs Make: WEB WILSON Size: AAX Jaws Available: 4 SIZES

Drill Pipe Elevators: Make: MGG Size: 127 mm

Drill Collar Elevators: Make: NONE Size: mm

Matting: No.: 42 Size: VARIOUS

Fuel Storage: 38,000 Liters

Water Storage: 77 m3

Water Pumps: No.: TWO Size: 2 1/2" X 2" Output: 320 Liters/Min.

**U. BOILER**

Power Rating: 436 kw

Operating Pressure Rating: 690 kPa

**V. LOADS**

RIG 37 Including BOILER & LOADER

CAMP 8

**W. OTHER MAJOR PIECES OF EQUIPMENT**

KOMATSU WA 250 LOADER W/ QUICK ATTACHMENT, BUCKET, FORKS , GROUND STEERING, & PIPE CLAMP

CATERPILLAR IT28G W/QUICK ATTACH, FORKS, BUCKET, & GRAPPLE STINGER

(2) 75 WATT LIGHTPLANT WITH COMPLETE BUILDING

VACUUM PUMP WITH TANK

6 UNIT TRAVCO CAMP

75 KW SUPPORT UNITS

8' x 12' x 5' FLARE TANK

(2) EXTRA SETS OF CELLAR MATS 8'6" x 50'

VARCO 250 TON TOP DRIVE

VARCO ST-80 IRON ROUGHNECK