

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

DATE: NOVEMBER 2018

CONTRACTOR: JOMAX DRILLING (1988) LTD. **RIG NUMBER:** 8E
DEPTH CAPACITY: 4,800 METERS **WITH** 127 mm **DRILL PIPE**

A. DRAWWORKS

Make: RIGMASTER Model: 1000E Input Power Rating: 746 kw
Maximum Hoisting Capacity: (Manufacturers) 310,000 daN with 12 Lines
Maximum Hoisting Capacity: (Contractors) 310,000 daN with 12 Lines
No. of Hoisting Speeds: SIX
Auxilliary Brake: Type: ELECTRIC Make: BAYLOR ELMAGO Model: 19RD130
Crown Block Protection: CROWN SAVER: Make: CROWN ALERT Model: A
Drive Group: Make: G.E. Type: HT 752 Input Power Rating: 842 kw

B. PRIME MOVER

	<u>ENGINE # 1</u>	<u>ENGINE #2</u>	<u>ENGINE # 3</u>
Make:	<u>CATERPILLAR</u>	<u>CATERPILLAR</u>	<u>CATERPILLAR</u>
Model:	<u>3508B</u>	<u>3508B</u>	<u>3508B</u>
Continuous Power - HP (kw) @ 1200 RPM	<u>915 (685)</u>	<u>915 (685)</u>	<u>915 (685)</u>

C: PRIME MOVERS (Electric Rigs Only)

Electrical System: INTEGRATED POWER SYSTEMS MODEL 1600 3 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>6P6-2650</u>	<u>6P6-2650</u>	<u>6P6-2650</u>
Power Rating (kw)	<u>1,050</u>	<u>1,050</u>	<u>1,050</u>
KVA	<u>1,500</u>	<u>1,500</u>	<u>1,500</u>

D. ROTARY TABLE

Make: NATIONAL Model: C2750 Maximum Table Opening: 698 mm
Power Available: 746 kw
Static Load Rating: 445,000 daN
Rotary Speeds Forward: 3 Maximum RPM: 180 Minimum RPM: 1
Reverse: 1 Maximum RPM: 90 Minimum RPM: 1

E. DERRICK

Make: PYRAMID Model: M14221-800 Type: CANTILEVER
Gross Nominal Capacity (Manufacturers): 413,367 daN
Maximum Hook Load (Manufacturers): 310,000 daN with 12 Lines
Maximum Hook Load (Contractor): 310,000 daN with 12 Lines
Racking Capacity: 4800 Meters of 127 mm Drillpipe
Height: 43.30 Meters
Hook to Rotary Table: Distance with Blocks at Crown Stop: 39.60 Meters

F. SUBSTRUCTURE

Make: PYRAMID MODIFIED Size: 56'L x 28'W x 23'H Type: BOX ON BOX
Maximum Table Load (Casing Capacity): 311,600 daN with 222,400 daN Setback
KB to Ground: 7.19 Meters
Clear Height for BOP's: 6.40 Meters

G. TRAVELLING EQUIPMENT

	<u>CROWN BLOCKS</u>	<u>TRAVELLING BLOCKS</u>	<u>BALES</u>	<u>ELEVATORS</u>	<u>TOP DRIVE</u>
Make:	<u>GRIZZLY</u>		<u>JOY</u>	<u>BLOHM VOSS</u>	<u>TESCO</u>
Model:	<u>6-42 x 1 1/4"</u>	<u>6-42-H350</u>	<u>2 3/4" x 108"</u>	<u>VESCL</u>	<u>ECI900</u>
Ld. Rating (daN):	<u>445,000</u>		<u>318,500</u>	<u>318,500</u>	
# of Sheaves:	<u>6 + 60"FL</u>	<u>6" x 42" X 1 1/4"</u>			
API Bearing Rating (daN) @ 100 RPM	<u>445,000</u>				
Min. ID (mm):					

H. DRILLING LINE

Rope Diameter: 32 mm Rope Type: 6 x 19 SEALE IWRC NYLON IMPREGNATED
Core Type: IWRC Nominal Strength: 80,000 daN
Slip Interval @ 13,000 MegaJoules Cut 18 Meters

I. DEAD LINE ANCHOR

Make: NATIONAL Model: E.B. Dead Load Rating: 42,000 daN

J. MUD PUMPS

PUMP # 1

Make:	<u>NATIONAL</u>	Model:	<u>10P130</u>	Power Rating:	<u>(1300 hp) 970 kw</u>
Available Power to Pump:	<u>(1129 hp) 842 kw</u>	Stroke:	<u>254</u>		<u>mm</u>
Pulsation Dampner:	Make: <u>EMSCO</u>	Model:	<u>PD45</u>	Precharge:	<u>4,500</u> kPa
Liner Sizes Available:	<u>152</u> mm		<u>140</u> mm		<u>127</u> mm
Minimum Strokes per Minute:	<u>1</u> spm		<u>1</u> spm		<u>1</u> spm
Maximum Strokes per Minute:	<u>115</u> spm		<u>115</u> spm		<u>115</u> spm
Max. Manufacturers Rated Press.:	<u>27,700</u> kPa		<u>32,000</u> kPa		<u>34,500</u> kPa
Max. Contractor's Allowed Press.:	<u>26,800</u> kPa		<u>32,000</u> kPa		<u>34,470</u> kPa

PUMP # 2

Make:	<u>NATIONAL</u>	Model:	<u>10P130</u>	Power Rating:	<u>(1300 hp) 970 kw</u>
Available Power to Pump:	<u>(1129 hp) 842 kw</u>	Stroke:	<u>254</u>		<u>mm</u>
Pulsation Dampner:	Make: <u>EMSCO</u>	Model:	<u>PD45</u>	Precharge:	<u>4,500</u> kPa
Liner Sizes Available:	<u>152</u> mm		<u>140</u> mm		<u>127</u> mm
Minimum Strokes per Minute:	<u>1</u> spm		<u>1</u> spm		<u>1</u> spm
Maximum Strokes per Minute:	<u>115</u> spm		<u>115</u> spm		<u>115</u> spm
Max. Manufacturers Rated Press.:	<u>27,700</u> kPa		<u>32,000</u> kPa		<u>34,500</u> kPa
Max. Contractor's Allowed Press.:	<u>26,800</u> kPa		<u>32,000</u> kPa		<u>34,470</u> kPa

K. MUD TANKS

Tank # 1 # of Compartments: 3 Height: 2.31 m Useable Capacity: 132 m3
Tank # 2 # of Compartments: 4 Height: 2.31 m Useable Capacity: 90 m3
Tank # 3 # of Compartments: _____ Height: _____ m Useable Capacity: _____ m3

TRIP TANK:
Width: 1.65 m Length: 1.65 m HEIGHT: 1.98 m Useable Capacity: 6.5 m3

Trip Tank Location: SHALE COMPARTMENT

Trip Tank Pump: Make: MISSION Model: 3" X 4" Type: 1 7/8" PEDISTAL

Pill Tank Volume: 4 m3

Premix Compartment: 31.4 m3

Total No. of Agitators: 5

Number of Mixing Hoppers: 2 Type: 2 - 6" VENTURI W 3"X3/4" NOZZLES

L. SCHEMATIC DIAGRAM (ATTACHED)

M. CENTRIFUGAL PUMPS

	<u>PUMP # 1</u>	<u>PUMP # 2</u>	<u>PUMP # 3</u>
Make:	<u>HALCO</u>	<u>HALCO</u>	<u>HALCO</u>
Model:	<u>H 6101</u>	<u>250</u>	<u>250</u>
Size:	<u>2 1/2" x 5" x 6"</u>	<u>2 1/2" x 5" x 6"</u>	<u>2 1/2" x 5" x 6"</u>
Impellor Size:	<u>279 mm</u>	<u>279 mm</u>	<u>279 mm</u>
RPM:	<u>1,300</u>	<u>1,300</u>	<u>1,300</u>
Input Power:	<u>50</u>	<u>50</u>	<u>50</u>

USED FOR:

<u>PUMP # 1</u>	<u>CHARGE PUMP</u>
<u>PUMP # 2</u>	<u>MIXING PUMP</u>
<u>PUMP # 3</u>	<u>MIXING PUMP</u>

N. SOLIDS CONTROL

	<u>SHALE SHAKER #1</u>	<u>SHALE SHAKER #2</u>
Make:	<u>SWACO</u>	<u>SWACO</u>
Model:	<u>MONGOOSE PT</u>	<u>MONGOOSE PT</u>
Contractor will Supply <u>100</u> Mesh Screens		

	<u>DESANDER</u>	<u>DESILTER</u>
Make:	<u>NONE</u>	<u>NONE</u>
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

0. BLOW OUT PREVENTION EQUIPMENT

	ANNULAR	RAM # 1	RAM # 2	RAM # 3
Make:	SHAFFER	SHAFFER	SHAFFER	SHAFFER
Model:	BOLTED	SL	SL	SL
Type:	SPHERICAL	SINGLE	SINGLE	SINGLE
Size (mm):	346	346	346	346
Working Press. (kPa)	34,700	34,700	34,700	34,700
Connection Type:	STUD X FLANGE	STUDED & FLANGED	STUDED 14" OPERATORS	STUDED
Manual/Hydraulic:	HYDRAULIC	HYDRAULIC	HYDRAULIC	HYDRAULIC
Ram Size (mm):		127	CSO	127
Element Type:	NEOPRENE	NEOPRENE	NEOPRENE	NEOPRENE

SHOCK HOSES:

Make: GATES Pressure Rating: 7,500 psi

ACCUMULATOR

Make: WAGNER Model: UET30VM230 Pressure Rating: 20,700 kPa
 Number of Bottles: 16 @ 56.8 Liters Each
 Precharge Pressure: 8,400 kPa
 Accumulator Pressure Operated by Contractor: 21,000 kPa
 Manifold Pressure: 10,500 kPa
 Number of Stations: SIX
 Master BOP Controls Location: ACCUMULATOR HOUSE
 Remote BOP Controls Location: DOG HOUSE Type: ELECTRIC
 Number of Pressure Regulators: TWO Make: WAGNER
 Model: 1-25009, 1-105766 Location: ACCUMULATOR HOUSE (Both Valves)
 Number of N2 Bottles: 4 Size: 49 Liters Minimum Pressure: 10,500 kPa
 Shear Ram Auxillary System (4) 15 GALLON BOTTLES

PUMP # 1

Make: GARDENER DENVER Model: GD25 Type: TRIPLEX
 Pressure Rating: 20,700 kPa Pump Rate: 54 Liters/Min.

PUMP # 2

Make: UNION Model: TD28 Type: TRIPLEX
 Pressure Rating: 20,700 kPa Pump Rate: 54 Liters/Min.

HCR VALVES

Make: HI-KALIBRE Model: 3350 SERIES Nace Trim: YES
 Number: TWO Size: 76 mm Pressure Rating: 34,700 kPa

CHOKE MANIFOLD

Make: JMP Model: DOUBLE GUT LINE Nace Trim: YES
 Number: 13 Size: 76 mm Pressure Rating: 34,700 kPa

CHOKE # 1:

Make: SWACO Model: SUPER CHOKE Nace Trim: YES
 Size: 65 mm Pressure Rating: 70,000 kPa

CHOKE # 2:

Make: WILLIS Model: M 3 Nace Trim: YES
Size: 76 mm Pressure Rating: 34,700 kPa

DUAL BALL VALVE

Make: HI KALIBRE Model: 4150-SDB-JF 429 Nace Trim: YES
Size: 176 MM - 4 1/2 IF" Pressure Rating: 34,700 kPa

LOWER KELLY COCK:

Make: HI-KALIBRE Model: 4150-76 5" XH Nace Trim: YES
Size: 159 mm Pressure Rating: 34,700 kPa

STABBING VALVE:

Make: HI-KALIBRE Model: 4150-76 5" XH Nace Trim: YES
Number: 1 Size: 159 mm Pressure Rating: 34,700 kPa

INSIDE BOP:

Make: HIKALIBRE Model: RETRIEVABLE Nace Trim: YES
Number: 1 Size: 159 5" XH Pressure Rating: 70,000 kPa

BLEED OFF LINE:

Number: 2 Size: 101 mm Nace Trim: YES
Pressure Rating: 34,700 kPa

KILL LINE:

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

CHECK VALVE:

Make: HI-KALIBRE Model: 3350 SERIES
Number: 2 Size: 76 mm Pressure Rating: 34,700 kPa

MUD GAS SEPARATOR # 1

Type: POORBOY Location: REMOTE
Vessel OD: 914 mm
Inlet Size: 114.3 mm
Outlet Size: 219 mm Line Size to Flarepit: 219 mm
Overall Height: 4.2 Meters
Distance Above Bottom of Tank: 50 cm
Design Level: CLASS V

MUD GAS SEPARATOR # 2

Type: POORBOY Location: REMOTE
Vessel OD: 914 mm
Inlet Size: 114.3 mm
Outlet Size: 219 mm Line Size to Flarepit: 219 mm
Overall Height: 4.2 Meters
Distance Above Bottom of Tank: 45 cm
Design Level: CLASS V

P. DRILL PIPE

No.: 206 JTS. 127 mm 29.03 kg/m GRADE: SS 105 API Class: PREMIUM
Connections: NC50 Tool Joint: OD: 168 mm ID: 76 mm
Hardness Factor: Tube: Minimum HRC: 24 Maximum HRC: 27
Tool Joint Minimum HRC: 34 Maximum HRC: 38
Hardbanding: X YES NO Type: 300 XT

No.: 203 JTS. 127 mm 39 kg/m GRADE: SS 105 API Class: PREMIUM
Connections: NC50 Tool Joint: OD: 165 mm ID: 76 mm
Hardness Factor: Tube: Minimum HRC: 24 Maximum HRC: 27
Tool Joint Minimum HRC: 34 Maximum HRC: 38
Hardbanding: X YES NO Type: 300 XT

Q. HEAVIWATE

No.: 60 JTS. 127 mm
Connections: NC50 Tool Joint: OD: 165 mm ID: 75 mm
Hardbanding: X YES NO Type: 100 XT
Stress Relief: NO
Boreback: YES

R. DRILL COLLARS

Number: 6 JTS. OD: 229 mm ID: 76 mm Connections: 7" H90
Number: 23 JTS. OD: 177 mm ID: 64 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. 1 Connections: 6 5/8" REG BOX 7" H90 BOX
XO SUBS: NO. 2 Connections: 7" H90 PIN 5" XH BOX
JUNK SUBS: NO. 1 Connections: 4 1/2" REG BOX 4 1/2" REG BOX
SAVER SUBS: NO. 2 Connections: 5" XH PIN 5" XH PIN
BIT SUBS: NO. 2 Connections: 4 1/2" REG BOX 5" XH BOX
7 5/8" REG BOX 7" H90 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 3-4 Additional Wellsite Units
Power Available to run Rental Equipment: 100 kw
100 Amps 480 Volts 3 Phase

T. GENERAL

Drilling Instrumentation: PASON
Automatic Driller: PASON
High Pressure Wash Guns: 2 - MH 32C MAGIKIST
Electric Sump Circulating Pump: 2" ELECTRIC
Kelly Spinner:
Pipe Spinner: VARCO MODEL SSW 30
Kelly Hose: RELIANCE SIZE: 75 mm Working Pressure: 51,000 kPa
Make Up Tongs Make: W.W. Size: H Jaws Available: VARIOUS
Breakout Tongs: Make: W.W. Size: H Jaws Available: VARIOUS
Drill Pipe Elevators: Make: BLOHM VOSS Size: 127 mm
Drill Collar Elevators: Make: W.W. C10 Size: 177.8 mm
Matting: No.: 38 Size: VARIOUS
Fuel Storage: 33,000 Liters
Water Storage: 55,000 Liters
Water Pumps: No.: TWO Size: 1 1/2" x 2" Output: 340 Liters/Min.

U. BOILER

Power Rating: 428 kw
Operating Pressure Rating: 695 kPa

V. LOADS

RIG 61 Including BOILER & LOADER
CAMP 8

W. OTHER MAJOR PIECES OF EQUIPMENT

- KOMATSU WA 250 LOADER WITH QUICK ATTACHMENT, BUCKET & FORKS
- 60 K.W. LIGHT PLANT WITH COMPLETE BUILDING TO RUN SHACKS
- 9 PIPE TUBS FOR 5" PIPE.
- VACUUM AND TANK
- SHEAR RAM BOOSTER KIT FOR BOPS
- PIPE WRANGLERS HYDRAULIC CATWALK
- TOP DRIVE - TESCO 900 HP 500 TON