

SCHEDULE 1

DATE: NOVEMBER 2018

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

CONTRACTOR: JOMAX DRILLING (1988) LTD. **RIG NUMBER:** 11E
DEPTH CAPACITY: 3,800 METERS **WITH** 127 mm DRILL PIPE

A. DRAWWORKS

Make: RIGMASTER Model: 1000E Input Power Rating: 946 kw
 Maximum Hoisting Capacity: (Manufacturers) 310,000 daN with 10 Lines
 Maximum Hoisting Capacity: (Contractors) 310,000 daN with 10 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: 752 Input Power Rating: 746 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>3508 DITA</u>	<u>3508 DITA</u>	<u>3508 DITA</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 EQUIPMENT IPS 1000

	<u>GENERATOR # 1</u>	<u>GENERATOR # 2</u>	<u>GENERATOR # 3</u>
Make:	<u>KATO</u>	<u>KATO</u>	<u>KATO</u>
Model:	<u>800-68036-1111</u>	<u>800-68036-1111</u>	<u>800-68036-1111</u>
Power Rating (kw)	<u>800</u>	<u>800</u>	<u>800</u>
KVA	<u>1,500</u>	<u>1,500</u>	<u>1,500</u>

D. ROTARY TABLE

Make: EMSCO Model: T2050 Maximum Table Opening: 521 mm
 Power Available: 746 kw
 Static Load Rating: 311,500 daN
 Rotary Speeds Forward: 1 Maximum RPM: 140 Minimum RPM: 1
 Reverse: 1 Maximum RPM: 40 Minimum RPM: 0

E. DERRICK

Make: DRECO Model: CANTILEVER Type: 138' x 18'6"
 Gross Nominal Capacity (Manufacturers): 311,360 daN
 Maximum Hook Load (Manufacturers): 222,400 daN with 10 Lines
 Maximum Hook Load (Contractor): 222,400 daN with 10 Lines
 Racking Capacity: 3,800 Meters of 127 mm Drillpipe
 Height: 42.21 Meters
 Hook to Rotary Table: Distance with Blocks at Crown Stop: 35.91 Meters

F. SUBSTRUCTURE

Make: ALTA NORTH Size: 48'6" x 23' x 22' Type: BOX ON BOX
 Maximum Table Load (Casing Capacity): 222,400 daN with 222,400 daN Setback
 KB to Ground: 6.78 Meters
 Clear Height for BOP's: 6.10 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>GRIZZLY</u>	<u>B.J.</u>	<u>B.J.</u>	<u>VARCO</u>
Model:	<u>5-42" x 1 1/4"</u>	<u>542-H-350</u>	<u>2 3/4" x 120"</u>	<u>5" 350 TON</u>	<u>TDS-10SA</u>
Ld. Rating (daN):	<u>311,600</u>	<u>272,000</u>	<u>318,000</u>	<u>318,500</u>	
# of Sheaves:	<u>5+FASTLINE</u>				
API Bearing Rating (daN) @ 100 RPM	<u>311,600</u>				
Min. ID (mm):					

H. DRILLING LINE

Rope Diameter: 32 mm Rope Type: 6 x 19 SEALE IWRC PREMIUM SWAGED
 Core Type: IWRC Nominal Strength: 58,000 daN
 Slip Interval @ 13,000 MegaJoules Cut 15 Meters

I. DEAD LINE ANCHOR

Make: NATIONAL Model: D Dead Load Rating: 23,800 daN

J. MUD PUMPS

PUMP # 1

Make: NATIONAL Model: 10P130 Power Rating: (1300 hp) 969 kw
 Available Power to Pump: (1129 hp) 842 kw Stroke: 254 mm
 Pulsation Dampner: Make: HYDRIL Model: K-20-5000 Precharge: 4,500 kPa
 Liner Sizes Available: 152 mm 140 mm 127 mm
 Minimum Strokes per Minute: 30 spm 30 spm 30 spm
 Maximum Strokes per Minute: 115 spm 115 spm 115 spm
 Max. Manufacturers Rated Press.: 27,700 kPa 34,500 kPa 34,500 kPa
 Max. Contractor's Allowed Press.: 26,800 kPa 32,000 kPa 34,470 kPa

PUMP # 2

Make: NATIONAL Model: 10P130 Power Rating: (1300 hp) 969 kw
 Available Power to Pump: (1129 hp) 842 kw Stroke: 254 mm
 Pulsation Dampner: Make: HYDRIL Model: K-20-5000 Precharge: 4,500 kPa
 Liner Sizes Available: 152 mm 140 mm 127 mm
 Minimum Strokes per Minute: 30 spm 30 spm 30 spm
 Maximum Strokes per Minute: 115 spm 115 spm 115 spm
 Max. Manufacturers Rated Press.: 27,700 kPa 34,500 kPa 34,500 kPa
 Max. Contractor's Allowed Press.: 26,800 kPa 32,000 kPa 34,470 kPa

K. MUD TANKS

Tank # 1 # of Compartments: 3 Height: 2.31 m Useable Capacity: 80.2 m3
Tank # 2 # of Compartments: 3 Height: 2.31 m Useable Capacity: 100.9 m3
Tank # 3 # of Compartments: _____ Height: _____ m Useable Capacity: _____ m3

TRIP TANK:

Width: 3.50 m Length: 0.93 m HEIGHT: 2.30 m Useable Capacity: 8.7 m3
Trip Tank Location: NEXT TO SHALE SHAKERS
Trip Tank Pump: Make: MISSION Model: 1 7/8" PEDESTAL Type: 4" x 3" x 13" w/9" Impeller
Pill Tank Volume: 7.6 m3
Premix Tank Volume: 87 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>DOUBLE LIFE</u>	<u>DOUBLE LIFE</u>	<u>DOUBLE LIFE</u>
Model:	<u>250</u>	<u>250</u>	<u>250</u>
Size:	<u>5" x 6" X 11"</u>	<u>5" x 6" X 11"</u>	<u>5" x 6" X 11"</u>
Impellor Size:	<u>279 mm</u>	<u>279 mm</u>	<u>279 mm</u>
RPM:	<u>1,770</u>	<u>1,770</u>	<u>1,770</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>CHARGE PUMPS AND AGITATORS</u>
<u>PUMP # 3</u>	<u>MUD MIXING AND AGITATORS</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: 100 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>CAMERON</u>	<u>CAMERON</u>	
Model:	<u>BOLTED</u>	<u>DBL</u>	<u>U</u>	
Type:	<u>SPHERICAL</u>	<u>DOUBLE</u>	<u>SINGLE</u>	
Size (mm):	<u>346</u>	<u>346</u>	<u>346</u>	
Working Press. (kPa)	<u>70,000</u>	<u>70,000</u>	<u>70,000</u>	
Connection Type:	<u>STUD x FLANGE</u>	<u>STUD x STUD</u>	<u>STUD x STUD</u>	
Nace:	<u>YES</u>	<u>YES</u>	<u>YES</u>	
Manual/Hydraulic:	<u>HYDRAULIC</u>	<u>HYDRAULIC</u>	<u>HYDRAULIC</u>	
Ram Size (mm):	<u>127</u>	<u>127</u>	<u>127</u>	
Element Type:	<u>NITRILE</u>	<u>NITRILE</u>	<u>NITRILE</u>	

SHOCK HOSES:

Make: GATES Pressure Rating: 7,500 psi

ACCUMULATOR

Make: OFFSHORE SYSTEMS Model: MB-180-15ST Pressure Rating: 20,700 kPa
 Number of Bottles: 12 @ 56.8 Liters Each
 Precharge Pressure: 8,400 kPa
 Accumulator Pressure Operated by Contractor: 20,700 kPa
 Manifold Pressure: 20,700 kPa
 Number of Stations: 7
 Master BOP Controls Location: ACCUMULATOR HOUSE - BACK OF SCR BUILDING
 Remote BOP Controls Location: DOG HOUSE Type: PILOT PRESSURE
 Number of Pressure Regulators: TWO Make: T.R. 4 + H.T.R. 4
 Model: 1-25009, 1-105766 Location: ON ACCUMULATOR STAND
 Number of N2 Bottles: 4 Size: 50 Liters Minimum Pressure: 16,800 kPa

PUMP # 1

Make: UNION Model: TD28 Type: TRIPLEX
 Pressure Rating: 20,700 kPa Pump Rate: 12.9 Gall/M Liters/Min. 52

PUMP # 2

Make: UNION Model: TD28 Type: TRIPLEX
 Pressure Rating: 20,700 kPa Pump Rate: 12.9 Gall/M Litres/Min. 52

HCR VALVES

Make: McEVOY Model: G. REVERSE ACTING Nace Trim: YES
 Number: TWO Size: 76 mm Pressure Rating: 70,000 kPa

CHOKE MANIFOLD

Make: JMP Model: DOUBLE GUTLINE Nace Trim: YES
 Number: 14 Size: 76 mm Pressure Rating: 70,000 kPa

CHOKE # 1:

Make: WILLIS Model: M3 Nace Trim: YES
 Size: 76 mm Pressure Rating: 70,000 kPa

CHOKE # 2:

Make: WILLIS Model: M 3 Nace Trim: YES
Size: 76 mm Pressure Rating: 70,000 kPa

CHOKE # 3:

Make: WILLIS Model: M 3 Nace Trim: YES
Size: 76 mm Pressure Rating: 70,000 kPa

UPPER KELLY COCK:

Make: VARCO Model: 110103-500 Nace Trim: YES
Size: 200 mm Pressure Rating: 70,000 kPa

LOWER KELLY COCK:

Make: VARCO Model: 114706-500 Nace Trim: YES
Size: 200 mm Pressure Rating: 70,000 kPa

STABBING VALVE:

Make: HI-KALIBRE Model: 4150-76 5" XH Nace Trim: YES
Number: 1 Size: 159 mm Pressure Rating: 70,000 kPa

INSIDE BOP:

Make: HYDRIL Model: CHECK GUARD Nace Trim: YES
Number: 1 Size: 159 5" XH Pressure Rating: 70,000 kPa

BLEED OFF LINE:

Number: 2 Size: 114 mm Nace Trim: YES
Pressure Rating: 70,000 kPa

KILL LINE:

Number: 2 Size: 89 mm Nace Trim: YES
Pressure Rating: 70,000 kPa

CHECK VALVE:

Make: HI-KALIBRE Model: 3350 SERIES
Number: 2 Size: 76 mm Pressure Rating: 70,000 kPa

MUD GAS SEPARATOR # 1

Type: JOMAX BUILT Location: REMOTE
Vessel OD: 914 mm
Inlet Size: 114.3 mm
Outlet Size: 219 mm Line Size to Flarepit: 219 mm
Overall Height: 2.58 Meters
Distance Above Bottom of Tank: 58 cm
Design Level: CLASS IV

MUD GAS SEPARATOR # 2

Type: JOMAX BUILT Location: REMOTE
Vessel OD: 914 mm
Inlet Size: 114.3 mm
Outlet Size: 219 mm Line Size to Flarepit: 219 mm
Overall Height: 2.58 Meters
Distance Above Bottom of Tank: 58 cm
Design Level: CLASS IV

P. DRILL PIPE

No.: 259 JTS. 127 mm 29.03 kg/m GRADE: E API Class: PREMIUM
Connections: NC50 Tool Joint: OD: 165 mm ID: 82 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.: 151 JTS. 127 mm 38.13 kg/m GRADE: E API Class: PREMIUM
Connections: NC50 Tool Joint: OD: 159 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.: JTS. mm kg/m GRADE: API Class:
Connections: Tool Joint: OD: mm ID: mm
Hardness Factor: Tube: Minimum HRC: Maximum HRC:
Tool Joint Minimum HRC: Maximum HRC:
Hardbanding: YES NO Type:

Q. HEAVIWATE

No.: 52 JTS. 127 mm
Connections: 5" XH Tool Joint: OD: 170 mm ID: 76 mm
Hardbanding: X YES NO Type: FINE PARTICLE
Stress Relief: NO
Boreback: YES

R. DRILL COLLARS

Number:	<u>20</u>	JTS.	OD:	<u>174</u>	mm	ID:	<u>60</u>	mm	Connections:	<u>5" XH</u>
Number:	<u>5</u>	JTS.	OD:	<u>228</u>	mm	ID:	<u>76</u>	mm	Connections:	<u>7" H90</u>
Number:	<u> </u>	JTS.	OD:	<u> </u>	mm	ID:	<u> </u>	mm	Connections:	<u> </u>
Stress Relief:	<u> </u>	<u>YES</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
Boreback:	<u> </u>	<u>YES</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
Spiral:	<u> </u>	<u>NO</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
Slip Recess:	<u> </u>	<u>YES</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
Elevator Recess:	<u> </u>	<u>NO</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
BIT SUBS:	NO.	<u>1</u>	Connections:	<u>6 5/8" REG BOX</u>	<u>7" H90 BOX</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
XO SUBS:	NO.	<u>1</u>	Connections:	<u>7 5/8" REG BOX</u>	<u>7" H90 BOX</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
JUNK SUBS:	NO.	<u>2</u>	Connections:	<u>4 1/2" REG BOX</u>	<u>4 1/2" REG BOX</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
SAVER SUBS:	NO.	<u>2</u>	Connections:	<u>4 1/2" REG BOX</u>	<u>7"H90 PIN</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
BIT SUBS:	NO.	<u>3</u>	Connections:	<u>7"H90 PIN</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
		<u>7</u>		<u>5"XH</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
		<u>3</u>		<u>4 1/2" PIN</u>	<u>4 1/2" PIN</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
		<u> </u>		<u>7 5/8" REG BOX</u>	<u>7" H90 BOX</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>

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 5 Additional Wellsite Units
Power Available to run Rental Equipment: 150 kw
200 Amps 600 Volts 3 Phase

T. GENERAL

Drilling Instrumentation: PASON PENLESS
Automatic Driller: BELL
High Pressure Wash Guns: 2 - MH 32C MAGIKIST
Electric Sump Circulating Pump: 2" FLYTE
Kelly Spinner:
Pipe Spinner: FINN P700
Kelly Hose: THERMOID 3" x 75' SIZE: 76 mm Working Pressure: 34,700 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: WEB WILSON Size: 127 mm
Drill Collar Elevators: Make: Size: mm
Matting: No.: 22 Size: VARIOUS
Fuel Storage: 34,000 Liters
Water Storage: 64 m3
Water Pumps: No.: TWO Size: 2 1/2" x 7.5 HP Output: 420 Liters/Min.

U. BOILER

Power Rating: 465 kw
Operating Pressure Rating: 1034 kPa

V. LOADS

RIG 37 Including BOILER & LOADER
CAMP 8

W. OTHER MAJOR PIECES OF EQUIPMENT

- KOMATSU WA 250 LOADER WITH BUCKET & FORKS AND CLAMP
- UNIT HAS GROUND STEERING
- 5 UNIT TRAVCO CAMP WITH SUPPORT BUILDING
- 8 - 8' x 40' EXTRA MATTING
- VARCO TDS-10SA TOP DRIVE
- 8' x 12' x 5' FLARE TANK