

SCHEDULE 1

DATE: MARCH 2019

RIG: 1E

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

CONTRACTOR: JOMAX DRILLING (1988) LTD. **RIG NUMBER:** 1E
DEPTH CAPACITY: 6,000 METERS WITH 127.0 mm DRILL PIPE
BI-FUEL

A. DRAWWORKS

Make: RIGMASTER Model: 1500E Input Power Rating: (1500 hp) 1118 kw
 Maximum Hoisting Capacity: (Manufacturers) 380,000 daN with 10 Lines
 Maximum Hoisting Capacity: (Manufacturers) 400,000 daN with 12 Lines
 No. of Hoisting Speeds: 3
 Auxilliary Brake: Type: GLYCOL COOLED DISC Make: EATON Model: 336
 Crown Block Protection: CROWN SAVER: Make: CROWN ALERT Model: A
 Drive Group: Make: (2) GE Type: GE752

B. PRIME MOVERS

	<u>(3) ENGINES</u>	<u>(1) ENGINE</u>
Make:	<u>CATERPILLAR</u>	<u>CATERPILLAR</u>
Model:	<u>3512B Bi-Fuel</u>	<u>3508B Bi-Fuel</u>
Continuous Power - HP (kw) @ 1200 RPM	<u>1 476 (1101)</u>	<u>915 (682)</u>

C: PRIME MOVERS (Electric Rigs Only)

Electrical System: NOV - ROSS HILL MODEL 1850 4 BAY/4 GENERATORS

	<u>(3) 3512 GENERATORS</u>	<u>(1) 3508 GENERATOR</u>
Make:	<u>KATO</u>	<u>KATO</u>
Model:	<u>AA27478000</u>	<u>AA21064023</u>
Kw	<u>1 225</u>	<u>1 050</u>
KVA	<u>1 750</u>	<u>1 500</u>

D. ROTARY TABLE

Make: OILWELL Model: 2750 Maximum Table Openin 698 mm
 Power Available: 26,400 ft-lbs
 Static Load Rating: 445,000 daN
 Rotary Speeds Forward: ONE Maximum RPM: 30 Minimum RPM: 5
 Reverse: ONE Maximum RPM: 30 Minimum RPM: 5

E. DERRICK

Make: R.A. HODGSON Model: M142-21-900 Type: CANTILEVER
 Gross Nominal Capacity: 533,760 daN with 12 Lines
 Maximum Hook Load: 400,000 daN with 12 Lines
 Maximum Hook Load: 380,000 daN with 10 Lines
 Racking Capacity: 6,000 Meters of 127.0 mm Drillpipe
 Height: 43.3 Meters
 Hook to Rotary Table: Distance with Blocks at Crown Stop: 37.8 Meters

F. SUBSTRUCTURE

Make: R.A. HODGSON Model: S24.5-30-750 Type: BOX ON BOX MODIFIED
Maximum Table Load (Casing Capacity): 336,600 daN with 222,400 daN Setback
KB to Ground: 10.18 Meters
Clear Height for BOP's: 8.45 Meters

G. TRAVELLING EQUIPMENT

	<u>CROWN BLOCKS</u>	<u>TRAVELLING BLOCKS</u>	<u>BALES</u>	<u>ELEVATORS</u>	<u>TOP DRIVE</u>
Make:	<u>RIGMASTER</u>	<u>NATIONAL</u>	<u>B.J.</u>	<u>BLOHM & VOSS</u>	<u>VARCO</u>
Model:	<u>6 X 48" X 1 3/8"</u>	<u>650-H-500</u>	<u>2 3/4"x180"</u>	<u>VESCL T.D.</u>	<u>TDS11SA</u>
Ld. Rating (daN):	<u>450,000</u>	<u>450,000</u>	<u>318,500</u>	<u>318,500</u>	<u>500 Ton</u>
# of Sheaves:	<u>6</u>	<u>6</u>			
API Bearing Rating	<u>450,000</u>	<u>450,000</u>			

H. DRILLING LINE

Rope Diameter: 35 mm Rope Type: 6 x 19 SEALE EIPS
Core Type: STEEL Nominal Strength: 90,000 daN
Slip Interval @ 25,711 MegaJoules Cut 19.15 Meters

I. DEAD LINE ANCHOR

Make: DRECO Model: LOF-100CP8C LEG MOUNT Dead Load Rating: 42,000 daN

J. MUD PUMPS

PUMP # 1

Make: BOMCO Model: F1600 Power Rating: 1600 HP
Available Power to Pump (2): (1600 hp) 1 200 kw Stroke: 305 mm
Pulsation Dampner: Make: BAOJI Model: WY-75-52 Precharge 4,500 kPa
Liner Sizes Available: 120 - 193 mm
Minimum Strokes per Minute: 30 spm
Maximum Strokes per Minute: 120 spm
Max. Manufacturers Rated Press.: 7,500 psi
Max. Contractor's Allowed Press.: 7,500 psi

PUMP # 2

Make: BOMCO Model: F1600 Power Rating: 1600 HP
Available Power to Pump (2): (1600 hp) 1 200 kw Stroke: 305 mm
Pulsation Dampner: Make: BAOJI Model: WY-75-52 Precharge 4,500 kPa
Liner Sizes Available: 120 - 193 mm
Minimum Strokes per Minute: 30 spm
Maximum Strokes per Minute: 120 spm
Max. Manufacturers Rated Press.: 7,500 psi
Max. Contractor's Allowed Press.: 7,500 psi

K. MUD TANKS

Tank # 1 # of Compartments: 3 Height: 2.84 m Useable Capacity: 88.8 m3
Tank # 2 # of Compartments: 3 Height: 2.84 m Useable Capacity: 96.7 m3
Tank # 3 # of Compartments: _____ Height: _____ m Useable Capacity: _____ m3

TRIP TANK:
Length: 2.4 m Width: 4.39 m Height: 2.84 m Useable Capacity: 7.5 m3

Trip Tank Location: END OF SHAKER TANK

Trip Tank Pump: Make: MISSION Model: 1 7/8" PEDESTAL Type: 4" X 3" X 13" w9" Imp

Pill Tank Volume: 8.2 m3

Total No. of Agitators: 4

Number of Mixing Hoppers: 2 Type: 2-6" VENTURI W 3"x1" JETS

Scalping Tank Volume 65.29 m3

L. SEPARATE PREMIX TANK

Length: 10.6 m Height: 3.62 m Volume: 60 m3

M. SCHEMATIC DIAGRAM (ATTACHED)

N. CENTRIFUGAL PUMPS

	PUMP # 1	PUMP # 2	PUMP # 3
Make:	DOUBLE LIFE	DOUBLE LIFE	DOUBLE LIFE
Model:	250	250	250
Size:	6" X 5" 11"	6" X 5" 11"	6" X 5" 11"
Impellor Size:	279 mm	279 mm	279 mm
RPM:	1785	1785	1785
Input Power:	60 HP	60 HP	60 HP

USED FOR:

PUMP # 1 CHARGING #1 AND #2 PUMPS
PUMP # 2 CHARGING #1 AND #2 PUMPS
PUMP # 3 MIXING AGITATORS

O. SOLIDS CONTROL

Make: SHALE SHAKERS #1 & #2 SHALE SHAKER #3 & #4
Model: KING COBRA KING COBRA
Contractor will Supply HYBRID HYBRID
175 Mesh Screens

Make: DESANDER DESILTER
Model: NONE NONE
Make of Cones: _____
Size of Cones (mm): _____
Number of Cones: _____
Capacity: _____
Operating Pressure: _____

Power Available to Run Centrifuge: 300 kw 600 Volts
Breaker Rating: 300 Amps. _____ Plug Type: APPLETON AR20034

P. 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>U DOUBLE</u>	<u>U SINGLE</u>	
Type:	<u>SPHERICAL</u>	<u>SINGLE</u>	<u>SINGLE</u>	
Size (mm):	<u>346</u>	<u>346</u>	<u>346</u>	
Working Press. (kPa)	<u>34,700</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>101</u>	<u>101</u>	<u>101</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: 330 GALLON Pressure Rating 20,700 KpA
 Number of Bottles: 12 @ 56.8 Liters Each
 Precharge Pressure: 8,400
 Accumulator Pressure Operated by Contractor:
 Manifold Pressure: 10,500 kPa
 Number of Stations: 7
 Master BOP Controls Location: ON ACCUMULATOR, BACK OF SCR BUILDING
 Remote BOP Controls Location: DRILLER'S CONTROL IN DOGHOUSE Type: MANUAL
 Number of Pressure Regulators: TWO
 Model: HYDRAULIC Location: ON ACCUMULATOR STAND
 Number of N2 Bottles: 5 Size: 51 Liters Minimum Pressure: 14,000 kPa
 Shear Ram Auxillary System (4) 15 Gallon Bottles

PUMP # 1

Make: UNION Model: TD-28 Type: TRIPLEX
 Pressure Rating: 21,000 kPa Pump Rate: 51 Liters/Min.

PUMP # 2

Make: UNION Model: TD-28 Type: TRIPLEX
 Pressure Rating: 21,000 kPa Pump Rate: 51 Liters/Min.

HCR VALVES

Make: EEC Model: F.C. HYDRAULIC Nace Trim: YES
 Number: TWO Size: 76 mm Pressure Rating: 70,000 kPa

CHOKER MANIFOLD

Make: EEC Model: E-IC Nace Trim: YES
 # of Valves: 14 Size: 76 mm Pressure Rating: 70,000 kPa
 # of Valves: 2 Size: 51 mm Pressure Rating: 70,000 kPa

CHOKER # 1:

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

CHOKE # 2:

Make: CORTEC Model: ADJUSTIBLE MH2 Nace Trim: YES
Size: 77 mm Pressure Rating: 70,000 kPa

UPPER KELLY COCK:

Make: VARCO Model: IBUB17M219 Nace Trim: YES
Size: 169 REG R.H. Pressure Rating: 105,000 kPa

LOWER KELLY COCK:

Make: VARCO Model: IBLB25M232 Nace Trim: YES
Size: 169 REG R.H. Pressure Rating: 70,000 kPa

STABBING VALVE:

Make: HI-KALIBRE Model: 4150-356-IF Nace Trim: YES
Number: 1 Size: 169 mm Pressure Rating: 70,000 kPa

INSIDE BOP:

Make: HI-KALIBRE Model: 4750-29-IF Nace Trim: YES
Number: 1 Size: 169 mm Pressure Rating: 70,000 kPa

BLEED OFF LINE:

Number: 8 - 22' 2 1/2" Size: 3 1/16" x 10M x 114 Nace Trim: YES
Pressure Rating: 70,000 kPa

KILL LINES:

Number: 2 Size: 76 mm Nace Trim: YES
Pressure Rating: 42,000 kPa

CHECK VALVE:

Make: EEC Model: MS
Number: 2 Size: 76 mm Pressure Rating: 70,000 kPa

MUD GAS SEPARATOR # 1

Type: R.A HODGSON DUAL POORBOY Location: In Remote Tank at End of Shaker Tank
Vessel OD: 1,066 mm
Inlet Size: 102 mm
Outlet Size: 254 mm Line Size to Flarepit: 273 mm
Overall Height: 8.6 Meters
Distance Above Bottom of Tank: 50 cm
Design Level: CLASS V

MUD GAS SEPARATOR # 2

Type: R.A HODGSON DUAL POORBOY Location: In Remote Tank at End of Shaker Tank
Vessel OD: 1,066 mm
Inlet Size: 102 mm
Outlet Size: 254 mm Line Size to Flarepit: 273 mm
Overall Height: 9 Meters
Distance Above Bottom of Tank: 50 cm
Design Level: CLASS V

DRILLPIPE REQUIREMENTS TO BE DISCUSSED WITH DRILLING SUPERINTENDENT

Q. DRILL PIPE

No.: 277 JTS. 127 mm 29 kg/m GRADE: SS105 CLASS PREMIUM
Connections: 5"XH Tool Joint: O.D. 168 I.D. 76 mm
Hardness Factor: Tube: Minimum HRC: 21 Maximum HRC: 28 AVERAGE
Tool Joint Minimum HRC: 27 Maximum HRC: 28 AVERAGE
Hardbanding: X YES NO Type: 300 XT

No.: 202 JTS. 127 mm 38 kg/m GRADE: SS105 CLASS PREMIUM
Connections: 5"XH Tool Joint: O.D. 168 I.D. 76 mm
Hardness Factor: Tube: Minimum HRC: 21 Maximum HRC: 28
Tool Joint Minimum HRC: 28 Maximum HRC: 30
Hardbanding: X YES NO Type: 300 XT

R. HEAVIWATE

No.: 30 JTS. 127 mm
Connections: 5"XH Tool Joint: O.D. 171 I.D. 76 mm
Hardbanding: X YES NO Type: 1424 CRUSHED CARBIDE
Stress Relief: YES
Boreback: YES

S. DRILL COLLARS

Number: 4 JTS. OD: 242 mm ID: 73 mm Connections: 7" H90
Number: 15 JTS. OD: 172 mm ID: 60 mm Connections: 5"XH
Number: 15 JTS. OD: 210 mm ID: 73 mm Connections: 6 5/8" REG
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: 7 5/8" REG BOX x 7" H90 BOX
BIT SUBS: NO. 1 Connections: 6 5/8" REG BOX x 7" H90 BOX
XO SUBS: NO. 2 Connections: 7"H90 PIN x 5"XH BOX
SAVER SUBS: NO. 2 Connections: 4 1/2" I.F. PIN x 4 1/2" PIM

T. LIGHTPLANTS

CAMP
Plant # 1 Output: 55 kw Volts 208
Plant # 2 Output: 55 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

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U. GENERAL

Drilling Instrumentation: PASON

Automatic Driller: PASON - RENTAL

High Pressure Wash Guns: 2 - MH 32C MAGIKIST

Electric Sump Circulating Pump: 3" FLYTE 8 HP

Kelly Spinner: TOP DRIVE

Pipe Spinner: VARCO 4" WITH TOP DRIVE

Kelly Hose: SIZE: _____ mm Working Pressure: _____ kPa

Make Up Tongs Make: BYRON JACKSON Size SDD Jaws Available: 4 SIZES

Breakout Tongs: Make: BYRON JACKSON Size SDD Jaws Available: 4 SIZES

Drill Pipe Elevators: Make: BLOHM & VOSS Size: INSERT

Drill Collar Elevators: Make: BYRON JACKSON Size: 127 mm

Matting: No.: TBD Size: 8'6" x 50' / 8'6" x 40' / 8'6" x 34'

Fuel Storage: 41,170 Liters

Water Storage: 65 m3

Water Pumps: No.: 2 Size: 2 1/2" x 7.5 HP Output: 420 Litres/Min.

V. BOILERS (2)

Power Rating: 125 hp BI-FUEL

Operating Pressure Rating: 1034 kPa

W. LOADS

RIG 66 Including BOILER & LOADER

CAMP 8

X. OTHER MAJOR PIECES OF EQUIPMENT

HEADWATER 360° WALKING SYSTEM WITH 200' UMBILICAL ZIPPER SYSTEM

BOP HANDLING SYSTEM RATED FOR 25 TONS PER SIDE

VARCO ST-80 IRON ROUGHNECK

COMPLETE VACUUM WITH TANK, MOTOR AND HOSES

R.A. HODGSON 13 Cu. M. FLARE TANK

KOMATSU WA250-5L LOADER WITH BUCKET, FORKS AND CLAMPS

CREW VEHICLE

TRAVCO 6 UNIT CAMP WITH 55 KW SUPPORT UNIT

REMOTE DIAGNOSTIC LOGIN CAPABLE
