

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

DATE: NOVEMBER 2018

CONTRACTOR: JOMAX DRILLING (1988) LTD. **RIG NUMBER:** 12E
DEPTH CAPACITY: 5,000 METERS WITH 127 mm DRILL PIPE
BI-FUEL

A. DRAWWORKS

Make: RIGMASTER Model: E1200 Input Power Rating: 1040 kw
Maximum Hoisting Capacity: (Manufacturers) 338,000 daN with 12 Lines
Maximum Hoisting Capacity: (Contractors) 338,000 daN with 12 Lines
No. of Hoisting Speeds: SIX
Auxilliary Brake: Type: HYDROMATIC Make: EATON Model: 336WCD
Crown Block Protection: CROWN SAVER: Make: CROWN ALERT Model: A
Drive Group: Make: G.E. Type: 752 HT 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>3508</u>	<u>3512</u>	<u>3508</u>
Continuous Power HP (kw) @ 1200 RPM	<u>915 (685)</u>	<u>1320 (1,101)</u>	<u>915 (685)</u>

C: PRIME MOVERS (Electric Rigs Only)

Electrical System: M.I. INDUSTRIES M1600 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>AA296675002</u>	<u>AA27673003</u>	<u>AA296675002</u>
Power Rating (kw)	<u>1,050</u>	<u>1,225</u>	<u>1,050</u>
KVA	<u>1,500</u>	<u>1,750</u>	<u>1,500</u>

D. ROTARY TABLE

Make: EMSCO Model: T2750 Maximum Table Opening: 698 mm
Power Available: 746 kw
Static Load Rating: 311,500 daN
Rotary Speeds Forward: 1 Maximum RPM: 30 Minimum RPM: 0
Reverse: 1 Maximum RPM: 30 Minimum RPM: 0

E. DERRICK

Make: RIGMASTER Model: M14221-700 Type: CANTILEVER
Gross Nominal Capacity (Manufacturers): 415,147 daN
Maximum Hook Load (Manufacturers): 300,000 daN with 10 Lines
Maximum Hook Load (Contractor): 311,360 daN with 10 Lines
Racking Capacity: 5,000 Meters of 127 mm Drillpipe
Height: 43.30 Meters
Hook to Rotary Table: Distance with Blocks at Crown Stop: 37.8 Meters

F. SUBSTRUCTURE

Make: QUALITY FABRICATING Size: S24.5-30-675 Type: BOX ON BOX
 Maximum Table Load (Casing Capacity): 300,000 daN with 222,400 daN Setback
 KB to Ground: 7.60 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>OILWELL</u>	<u>OILWELL</u>	<u>VARCO</u>	<u>BLOHM & VOSS</u>	<u>VARCO</u>
Model:	<u>6 x 45" x 1 1/4"</u>	<u>G45H350</u>	<u>2 3/4" x 108"</u>	<u>VESCL350</u>	<u>IDS350</u>
Ld. Rating (daN):	<u>311,600</u>		<u>318,000</u>	<u>350 TONS</u>	
# of Sheaves:	<u>6+FASTLINE</u>	<u>6 x 45" x 1 1/4"</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 FLEX XIPS
 Core Type: IWRC Nominal Strength: 80,000 daN
 Slip Interval @ 11,040 MegaJoules Cut 19.2 Meters

I. DEAD LINE ANCHOR

Make: QUALITY FAB Model: LEGMOUNT Dead Load Rating: 42,000 daN

J. MUD PUMPS

PUMP # 1

Make: NATIONAL Model: 10P130 Power Rating: (1300 hp) 970 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 32,000 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) 970 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 32,000 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: 4 Height: 2.31 m Useable Capacity: 75 m3
Tank # 2 # of Compartments: 3 Height: 2.31 m Useable Capacity: 83.5 m3
Tank # 3 # of Compartments: Height: m Useable Capacity: m3

TRIP TANK:

Width: 3.53 m Length: 1.00 m HEIGHT: 2.31 m Useable Capacity: 7.0 m3
Trip Tank Location: NEXT TO SHALE SHAKERS
Trip Tank Pump: Make: MISSION Model: 4" x 3" x 13" w/9" Impeller Type: 1 7/8" PEDESTAL
Pill Tank Volume: 7.6 m3
Premix Tank Volume: 87 m3 Type: 1 7/8" PEDESTAL
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:	DOUBLE LIFE	DOUBLE LIFE	DOUBLE LIFE
Model:	MECHANICAL SEAL	MECHANICAL SEAL	MECHANICAL SEAL
Size:	11" x 5" x 6"	11" x 5" x 6"	11" x 5" x 6"
Impellor Size:	279 mm	279 mm	279 mm
RPM:	1,785	1,785	1,785
Input Power:	60	60	60

USED FOR:

PUMP # 1	CHARGE PUMP
PUMP # 2	CHARGE PUMPS AND AGITATORS
PUMP # 3	CHARGE PUMPS AND AGITATORS

N. SOLIDS CONTROL

	<u>SHALE SHAKER #1</u>	<u>SHALE SHAKER #2</u>
Make:	SWACO	SWACO
Model:	MONGOOSE PT	MONGOOSE PT
Contractor will Supply 100 Mesh Screens		
	<u>DESANDER</u>	<u>DESILTER</u>
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: 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></u>	<u>SL</u>	<u>SL</u>	<u>SL</u>
Type:	<u>SPHERICAL</u>	<u>SINGLE</u>	<u>SINGLE</u>	<u>SINGLE</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>STUD x FLANGE</u>	<u>STUD x FLANGE</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></u>	<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: MB-165-1557 Pressure Rating: 20,700 kPa
 Number of Bottles: 16 @ 56.8 Liters Each
 Precharge Pressure: 8,400 kPa
 Accumulator Pressure Operated by Contractor: 20,700 kPa
 Manifold Pressure: 10,500 kPa
 Number of Stations: 7
 Master BOP Controls Location: DOGHOUSE
 Remote BOP Controls Location: ACCUMULATOR Type: PILOT PRESSURE
 Number of Pressure Regulators: TWO Make: VALVCON
 Model: 1-25009, 1-105766 Location: ON ACCUMULATOR STAND
 Number of N2 Bottles: 6 Size: 49 Liters Minimum Pressure: 15,400 kPa
 Shear Ram Auxillary System (4) 15 Gallon Bottles

PUMP # 1

Make: UNION Model: TD28 Type: TRIPLEX
 Pressure Rating: 20,700 kPa Pump Rate: 11.4 Gall/M Liters/Min. 46

PUMP # 2

Make: UNION Model: TD28 Type: TRIPLEX
 Pressure Rating: 20,700 kPa Pump Rate: 11.4 Gall/M Liters/Min. 46

HCR VALVES

Make: SHAFFER Model: 3" - 34,700 kPa Nace Trim: YES
 Number: TWO Size: 76 mm Pressure Rating: 34,700 kPa

CHOKE MANIFOLD

Make: WKM Model: STS Nace Trim: YES
 Number: 16 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: WILLIS Model: M 3 Nace Trim: YES
Size: 76 mm Pressure Rating: 34,700 kPa

CHOKE # 3:

Make: Model: Nace Trim:
Size: mm Pressure Rating: kPa

UPPER KELLY COCK:

Make: VARCO Model: 11D103-500 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: IBOP-4.5IF-024 Nace Trim: YES
Number: 1 Size: 159 mm Pressure Rating: 70,000 kPa

INSIDE BOP:

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

BLEED OFF LINES:

Number: 10 Size: 101 mm Nace Trim: YES
Pressure Rating: 34,700 kPa

KILL LINE:

Number: 2 Size: 76 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: POORBOOY Location: FREE STANDING
Vessel OD: 914 mm
Inlet Size: 76 mm
Outlet Size: 254 mm Line Size to Flarepit: 219 mm
Overall Height: 4.3 Meters
Distance Above Bottom of Tank: 58 cm
Design Level: CLASS V

MUD GAS SEPARATOR # 2

Type: JOMAX BUILT Location: REMOTE
Vessel OD: 914 mm
Inlet Size: 76 mm
Outlet Size: 254 mm Line Size to Flarepit: 219 mm
Overall Height: 4.3 Meters
Distance Above Bottom of Tank: 58 cm
Design Level: CLASS V

P. DRILL PIPE

No.: 287 JTS. 127 mm 29.03 kg/m GRADE: SS95 API Class: PREMIUM
 Connections: 5" XH Tool Joint: OD: 168 mm ID: 76 mm
 Hardness Factor: Tube: Minimum HRC: 20 Maximum HRC: 27
 Tool Joint Minimum HRC: 27 Maximum HRC: 34
 Hardbanding: X YES NO Type: 300 XT

No.: 191 JTS. 127 mm 38.13 kg/m GRADE: SS95 API Class: PREMIUM
 Connections: 5" XH Tool Joint: OD: 168 mm ID: 76 mm
 Hardness Factor: Tube: Minimum HRC: 20 Maximum HRC: 27
 Tool Joint Minimum HRC: 27 Maximum HRC: 34
 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.: 51 JTS. 127 mm
 Connections: 5" XH Tool Joint: OD: mm ID: mm
 Hardbanding: X YES NO Type: FINE PARTICLE
 Stress Relief: NO
 Boreback: YES

R. DRILL COLLARS

Number:	<u>27</u>	JTS.	OD:	<u>177</u>	mm	ID:	<u>65</u>	mm	Connections:	<u>5" XH</u>
Number:	<u>4</u>	JTS.	OD:	<u>241</u>	mm	ID:	<u>76</u>	mm	Connections:	<u>7" H90</u>
Number:	<u>6</u>	JTS.	OD:	<u>216</u>	mm	ID:	<u>76</u>	mm	Connections:	<u>7" H90</u>
Stress Relief:				<u>YES</u>						
Boreback:				<u>YES</u>						
Spiral:				<u>NO</u>						
Slip Recess:				<u>YES</u>						
Elevator Recess:				<u>NO</u>						
BIT SUBS:	<u>NO.</u>			<u> </u>		Connections:				
XO SUBS:	<u>NO.</u>			<u> </u>		Connections:				
JUNK SUBS:	<u>NO.</u>			<u>1</u>		Connections:	<u>4 1/2" REG BOX</u>	<u>4 1/2" REG PIN</u>		
SAVER SUBS:	<u>NO.</u>			<u> </u>		Connections:	<u> </u>	<u> </u>		
BIT SUBS:	<u>NO.</u>			<u> </u>		Connections:	<u> </u>	<u> </u>		
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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:

Automatic Driller: PASON
High Pressure Wash Guns: 2 - MH 32CX MAGIKIST
Electric Sump Circulating Pump: 2" FLYGT PUMP
Kelly Spinner:
Pipe Spinner: VARCO ST80 IRON ROUGHNECK
Kelly Hose: RED-L 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: BYRON JACKSON Size: 127 mm
Drill Collar Elevators: Make: Size: mm
Matting: No.: 46 Size: VARIOUS
Fuel Storage: 53,500 Liters
Water Storage: 67 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 67 Including BOILER & LOADER
CAMP 8

W. OTHER MAJOR PIECES OF EQUIPMENT

CATERPILLAR 930G LOADER WITH QUICK ATTACH, FORKS AND BUCKET
UNIT HAS GROUND STEERING
CREW VEHICLE
VARCO IDS350 TOP DRIVE
ST-80 IRON ROUGHNECK
8 - 8' X 45' EXTRA MATTING
8 - 8' X 32'6" EXTRA MATTING
B.O.P. SHEAR RAM AUXILLARY SYSTEM
3 - SHALE TANKS
8' x 12' x 5' FLARE TANK