

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

DATE: NOVEMBER 2018

**CONTRACTOR:** JOMAX DRILLING (1988) LTD. **RIG NUMBER:** 4E  
**DEPTH CAPACITY:** 5,400 **METERS WITH** 127 **mm DRILL PIPE**

**A. DRAWWORKS**

Make: OILWELL Model: MODIFIED 840E Input Power Rating: 1040 kw  
Maximum Hoisting Capacity: (Manufacturers) 444,800 daN with 12 Lines  
Maximum Hoisting Capacity: (Contractors) 444,800 daN with 12 Lines  
No. of Hoisting Speeds: SIX  
Auxilliary Brake: Type: ELECTRIC Make: BAYLOR ELMAGO Model: 6032  
Crown Block Protection: CROWN SAVER: Make: CROWN ALERT Model: A  
Drive Group: Make: JOLIET Type: 752

**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>D3512</u>	<u>D3512</u>	<u>D3512</u>
Continuous Power - HP (kw) @ 1200 RPM	<u>1 323 (987)</u>	<u>1 323 (987)</u>	<u>1 323 (987)</u>

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

Electrical System: ROSS HILL MODEL 1400 3 BAY/3 GENERATORS

	<u>GENERATOR # 1</u>	<u>GENERATOR # 2</u>	<u>GENERATOR # 3</u>
Make:	<u>STAMFORD</u>	<u>STAMFORD</u>	<u>STAMFORD</u>
Model:	<u>1200 RPM</u>	<u>1200 RPM</u>	<u>1200 RPM</u>
Power Rating (kw)	<u>1 050</u>	<u>1 050</u>	<u>1 050</u>
KVA	<u>1750</u>	<u>1750</u>	<u>1750</u>

**D. ROTARY TABLE - INDEPENDENT ROTARY DRIVE**

Make: OILWELL Model: SA 2750 Maximum Table Opening: 698 mm  
Drive Group: G.E. Model: 752 Type: ELECTRIC Input Power Rating: 746 kw  
Static Load Rating: 445,000 daN  
Rotary Speeds Forward: ONE Maximum RPM: 150 Minimum RPM: ONE  
Reverse: ONE Maximum RPM: 30 Minimum RPM: ONE

**E. DERRICK**

Make: D.S.I. Model: 142' X 25' Type: CANTILEVER  
Gross Nominal Capacity (Manufacturers): 592,000 daN  
Maximum Hook Load (Manufacturers): 444,800 daN with 12 Lines  
Maximum Hook Load (Contractor): 444,800 daN with 12 Lines  
Racking Capacity: 6000 Meters of 127 mm Drillpipe  
Height: 43.30 Meters  
Hook to Rotary Table: Distance with Blocks at Crown Stop: 38.00 Meters

**F. SUBSTRUCTURE**

Make: D.S.I. Model: 48' L X 29' W X 26' H Type: BOX ON BOX  
 Maximum Table Load (Casing Capacity): 355,800 daN with 266,880 daN Setback  
 KB to Ground: 8.05 Meters  
 Clear Height for BOP's: 6.58 Meters

**G. TRAVELLING EQUIPMENT**

	CROWN BLOCKS	TRAVELLING BLOCKS	BALES	ELEVATORS	TOP DRIVE
Make:	<u>D.S.I.</u>	<u>IDECO</u>	<u>B.J.</u>	<u>BLOHM&amp;VOSS</u>	<u>TESCO</u>
Model:	<u>6-60 x 1 3/8</u>	<u>TB 525</u>	<u>2 3/4" X 108"</u>	<u>350 TON</u>	<u>ECI900</u>
Ld. Rating (daN):	<u>445,000</u>	<u>445,000</u>	<u>318,000</u>	<u>318,000</u>	
# of Sheaves:	<u>6+FASTLINE</u>	<u>6 x 1 3/8 x 60"</u>			
API Bearing Rating (daN) @ 100 RPM	<u>445,000</u>				
Min. ID (mm):					

**H. DRILLING LINE**

Rope Diameter: 35 mm Rope Type: 6 x 19 SEALE EIPS  
 Core Type: IWRC Nominal Strength: 90,000 daN  
 Slip Interval @ 30,000 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: BAOJI Model: BSF 1600 Power Rating: (1600 hp) 1,200 kw  
 Available Power to Pump (2): (1000 hp) 746 kw Stroke: 305 mm  
 Pulsation Dampner: Make: BAOJI Model: PD55-5000 Precharge: 4,500 kPa  
 Liner Sizes Available: mm 152 mm 140 mm  
 Minimum Strokes per Minute: 30 spm 30 spm  
 Maximum Strokes per Minute: 120 spm 120 spm  
 Max. Manufacturers Rated Press.: 32,200 kPa 34,500 kPa  
 Max. Contractor's Allowed Press.: 32,160 kPa 34,470 kPa

**PUMP # 2**

Make: BAOJI Model: BSF 1600 Power Rating: (1600 hp) 1,200 kw  
 Available Power to Pump (2): (1000 hp) 746 kw Stroke: 305 mm  
 Pulsation Dampner: Make: BAOJI Model: PD55-5000 Precharge: 4,500 kPa  
 Liner Sizes Available: mm 152 mm 140 mm  
 Minimum Strokes per Minute: 30 spm 30 spm  
 Maximum Strokes per Minute: 120 spm 120 spm  
 Max. Manufacturers Rated Press.: 32,200 kPa 34,500 kPa  
 Max. Contractor's Allowed Press.: 32,160 kPa 34,470 kPa

**K. MUD TANKS**

Tank # 1	# of Compartments	<u>3</u>	Height:	<u>2.44</u> m	Useable Capacity:	<u>132</u> m3
Tank # 2	# of Compartments	<u>3</u>	Height:	<u>2.44</u> m	Useable Capacity:	<u>90</u> m3
Tank # 3	# of Compartments:	<u>          </u>	Height:	<u>          </u> m	Useable Capacity:	<u>          </u> m3

TRIP TANK:

Width: 1.67 m      Length: 1.67 m      HEIGHT: 2.44 m      Useable Capacity: 6.5 m3

Trip Tank Location: FIRST COMPARTMENT

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

Pill Tank Volume: 4 m3

Premix Tank Volume: 87 m3

Total No. of Agitators: 4

Number of Mixing Hoppers: 2      Type: 2 - 6" VENTURI WITH 3" x 1" NOZZLE

**L. SCHEMATIC DIAGRAM (ATTACHED)**

**M. CENTRIFUGAL PUMPS**

	<u>PUMP # 1</u>	<u>PUMP # 2</u>	<u>PUMP # 3</u>	<u>PUMP # 4</u>
Make:	<u>MISSION</u>	<u>MISSION</u>	<u>MISSION</u>	<u>MISSION</u>
Model:	<u>MAGNUM</u>	<u>MAGNUM</u>	<u>MAGNUM</u>	<u>MAGNUM</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 6" x 8"</u>	<u>2 1/2" x 5" x 6"</u>
Impellor Size:	<u>279 mm</u>	<u>279</u>	<u>279</u>	<u>279 mm</u>
RPM:	<u>1,275</u>	<u>1,275</u>	<u>1,275</u>	<u>1,275</u>
Input Power:	<u>60 HP</u>	<u>60 HP</u>	<u>60 HP</u>	<u>60 HP</u>

USED FOR:

<u>PUMP # 1</u>	<u>MIXING PUMP</u>
<u>PUMP # 2</u>	<u>CHARGE PUMP</u>
<u>PUMP # 3</u>	<u>CHARGE PUMP</u>
<u>PUMP # 4</u>	<u>MIX OR CHARGE</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  
100 Mesh Screens

	<u>DESANDER</u>	<u>DESILTER</u>
Make:	<u>NONE</u>	<u>NONE</u>
Model:	<u>          </u>	<u>          </u>
Make of Cones:	<u>          </u>	<u>          </u>
Size of Cones (mm):	<u>          </u>	<u>          </u>
Number of Cones:	<u>          </u>	<u>          </u>
Capacity:	<u>          </u>	<u>          </u>
Operating Pressure:	<u>          </u>	<u>          </u>

Power Available to Run Centrifuge: 100 kw      480 Volts

Breaker Rating: 2 - 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>SHAFFER</u>	<u>SHAFFER</u>	<u>SHAFFER</u>
Model:	<u>BOLTED</u>	<u>SL MANUAL</u>	<u>SL MANUAL</u>	<u>SL MANUAL</u>
Type:	<u>SPHERICAL</u>	<u>SINGLE</u>	<u>SINGLE</u>	<u>SINGLE</u>
Size (mm):	<u>279</u>	<u>279</u>	<u>279</u>	<u>279</u>
Working Press. (kPa)	<u>34,700</u>	<u>34,700</u>	<u>34,700</u>	<u>34,700</u>
Connection Type:	<u>STUDED &amp; FLANGED</u>	<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>	<u>YES</u>
Manual/Hydraulic:	<u>HYDRAULIC</u>	<u>HYDRAULIC</u>	<u>HYDRAULIC</u>	<u>HYDRAULIC</u>
Ram Size (mm):				<u>127 + 101 VARIABLE</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: VALVCON Model: 120E25UP 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: 10,500 kPa  
 Number of Stations: SIX  
 Master BOP Controls Location: ACCUMULATOR HOUSE  
 Remote BOP Controls Location: DOG HOUSE Type: ELECTRIC P.L.C.  
 Number of Pressure Regulators: TWO Make: VALVCON  
 Model: 1-25009, 1-105766 Location: ACCUMULATOR HOUSE (Both Valves)  
 Number of N2 Bottles: 12 Size: 49 Liters Minimum Pressure: 10,500 kPa

**PUMP # 1**

Make: UNION Model: TX10 Type: TRIPLEX  
 Pressure Rating: 20,700 kPa Pump Rate: 45 Liters/Min.

**PUMP # 2**

Make: UNION Model: TX10 Type: TRIPLEX  
 Pressure Rating: 20,700 kPa Pump Rate: 45 Liters/Min.

**HCR VALVES**

Make: CAMERON Model: H.R.C. Nace Trim: YES  
 Number: 2 Size: 76 mm Pressure Rating: 34,700 kPa

**CHOKE MANIFOLD**

Make: CAMERON Model: DOUBLE GUTLINE Nace Trim: YES  
 # of Valves: 18 Size: 76 mm Pressure Rating: 34,700 kPa

**CHOKE # 1:**

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

DUAL BALL KELLY COCK:  
 Make: HI-KALIBRE Model: 4185-SDB-IFR Nace Trim: YES  
 Size: 177 MM 4 1/2" IF mm Pressure Rating: 70,000 kPa

LOWER KELLY COCK:  
 Make: HI-KALIBRE Model: 4150-76 IF Nace Trim: YES  
 Size: 159 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: HI-KALIBRE Model: 4750-5-IF Nace Trim: YES  
 Number: 1 Size: 159 mm Pressure Rating: 70,000 kPa

BLEED OFF LINE:  
 Number: 8 Size: 114 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: JOMAX BUILT Location: REMOTE  
 Vessel OD: 1,066 mm  
 Inlet Size: 114.3 mm  
 Outlet Size: 274 mm Line Size to Flarepit: 274 mm  
 Overall Height: 3.96 Meters  
 Distance Above Bottom of Tank: 50 cm  
 Design Level: CLASS V

MUD GAS SEPARATOR # 2

Type: JOMAX BUILT Location: REMOTE  
 Vessel OD: 1,066 mm  
 Inlet Size: 114.3 mm  
 Outlet Size: 274 mm Line Size to Flarepit: 274 mm  
 Overall Height: 3.96 Meters  
 Distance Above Bottom of Tank: 50 cm  
 Design Level: CLASS V

**P. DRILL PIPE**

No.: 301 JTS. 127 mm 29.03 kg/m GRADE: SS105 API Class: PREMIUM  
 Connections: 5" XH Tool Joint: OD: 168 mm ID: 76 mm  
 Hardness Factor: Tube: Minimum HRC: 24 Maximum HRC: 27  
 Tool Joint Minimum HRC: 26 Maximum HRC: 30

Hardbanding: X YES      NO Type: 300XT

No.: 205 JTS. 127 mm 38 kg/m GRADE: SS105 API Class: PREMIUM  
 Connections: 5" XH Tool Joint: OD: 168 mm ID: 76 mm  
 Hardness Factor: Tube: Minimum HRC: 24 Maximum HRC: 27  
 Tool Joint Minimum HRC: 26 Maximum HRC: 30

Hardbanding: X YES      NO Type: 300XT

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.: 50 JTS. 127 mm  
 Connections: 5" XH Tool Joint: OD: 165 mm ID: 75 mm  
 Hardbanding: X YES      NO Type: DRILCO 1420 SERIES  
 Stress Relief: NO  
 Boreback: YES

**R. DRILL COLLARS**

Number:	<u>9</u>	JTS.	OD:	<u>240</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>
Number:	<u>22</u>	JTS.	OD:	<u>177</u>	mm	ID:	<u>60</u>	mm	Connections:	<u>5" XH</u>
Stress Relief:				<u>NO</u>						
Boreback:				<u>YES</u>						
Spiral:				<u>YES</u>						
Slip Recess:				<u>NO</u>						
Elevator Recess:				<u>NO</u>						
BIT SUBS:	NO.			<u>1</u>		Connections:	<u>6 5/8" REG BOX</u>		<u>7" H90 BOX</u>	
BIT SUBS:	NO.			<u>1</u>		Connections:	<u>7 5/8" REG BOX</u>		<u>7" H90 BOX</u>	
BIT SUBS:	NO.			<u>2</u>		Connections:	<u>4 1/2" REG BOX</u>		<u>5" XH BOX</u>	
XO SUBS:	NO.			<u>2</u>		Connections:	<u>5" XH BOX</u>		<u>7" H90 PIN</u>	
JUNK SUBS:	NO.			<u>1</u>		Connections:	<u>4 1/2" REG BOX</u>		<u>4 1/2" REG BOX</u>	
SAVER SUBS:	NO.			<u>2</u>		Connections:	<u>5" XH PIN</u>		<u>5" XH PIN</u>	

**S. LIGHTPLANTS**

CAMP

Plant # 1	Output:	<u>75</u>	kw	Volts	<u>208</u>
Plant # 2	Output:	<u>75</u>	kw	Volts	<u>208</u>

RIG MANAGER

Plant # 1	Output:	<u>100</u>	kw	Volts	<u>280</u>
Plant # 2	Output:	<u>100</u>	kw	Volts	<u>280</u>

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: CHIMO WATCHDOG MODEL 3000

Automatic Driller: WILDCAT - RENTAL

High Pressure Wash Guns: 2 - MH 32C MAGIKIST

Electric Sump Circulating Pump: 2" ELECTRIC

Kelly Spinner: \_\_\_\_\_

Pipe Spinner: P700

Kelly Hose: TAURUS SIZE: 75 mm Working Pressure: 34,700 kPa

Make Up Tongs Make: BLOHM & VOSS Size: Jaws Available: 3 1/2" - 13 3/8"

Breakout Tongs: Make: BLOHM & VOSS Size: Jaws Available: 3 1/2" - 13 3/8"

Drill Pipe Elevators: Make: BJ - GG Size: 127 mm

Drill Collar Elevators: Make: PICK-UP SUBS Size: 177.8 mm

Matting: No.: 38 Size: VARIOUS

Fuel Storage: 33,000 Liters

Water Storage: 50 M3

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

**U. BOILER**

Power Rating: 377 kw  
 Operating Pressure Rating: 695 kPa

**V. LOADS**

RIG 68 Including BOILER & LOADER

CAMP 9

**W. OTHER MAJOR PIECES OF EQUIPMENT**

KAMATSU WA 250-3 LOADER WITH QUICK ATTACHMENT, FRONT CHAINS, BUCKET & FORKS

DEUTZ 50 kw LIGHT PLANT UNIT FR WELLSITE UNITS

PIPE WRANGLER CATWALK

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

16 - 8' x 40' EXTRA MATTING

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