

SCHEDULE 1 DATE: NOVEMBER 2018
DESCRIPTION OF RIG EQUIPMENT PROVIDED BY CONTRACTOR
(ATTACHMENT TO EXHIBIT A)

CONTRACTOR: JOMAX DRILLING (1988) LTD. **RIG NUMBER:** 7E
DEPTH CAPACITY: 5,400 **METERS** **WITH** 127 **mm DRILL PIPE**

A. DRAWWORKS

Make: OILWELL Model: MODIFIED 840E Input Power Rating: 1044 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: G.E. Type: 752 HT Input Power Rating: 842 kw

B. PRIME MOVER

	<u>ENGINE # 1 & 2</u>	<u>ENGINE #3</u>	<u>ENGINE # 4</u>
Make:	<u>CATERPILLAR</u>	<u>CATERPILLAR</u>	<u>CATERPILLAR</u>
Model:	<u>3512DI</u>	<u>3512</u>	<u>3508 Bi-Fuel</u>
Continuous Power - HP (kw) @ 1200 RPM	<u>1 300 (985)</u>	<u>1 300 (985)</u>	<u>915 (750)</u>

C: PRIME MOVERS (Electric Rigs Only)

Electrical System: TECH POWER MODEL 1200 SCR 4 BAY 3 GENERATORS

	<u>GENERATOR # 1 & 2</u>	<u>GENERATOR # 3</u>	<u>GENERATOR # 4</u>
Make:	<u>STAMFORD</u>	<u>STAMFORD</u>	<u>KATO</u>
Model:			
Power Rating (kw)	<u>1,050</u>	<u>1,050</u>	<u>1,050</u>
KVA	<u>1,750</u>	<u>1,750</u>	<u>1,500</u>

D. ROTARY TABLE - INDEPENDENT ROTARY DRIVE

Make: OILWELL Model: SA 2750 Maximum Table Opening: 698 mm
Drive Group: Make Rigmaster Model Hydraulic Direct Rotary Drive
Table Torque: 34,000 lbs. @ 2,000 psi Ratio 25:1
Static Load Rating: 444,800 daN
Rotary Speeds Forward: ONE Maximum RPM: 7 Minimum RPM: 7
Reverse: ONE Maximum RPM: 7 Minimum RPM: 7

E. DERRICK

Make: DRECO Model: M14225-1330 Type: CANTILEVER
Gross Nominal Capacity (Manufacturers): 600,000 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: 43.29 Meters
Hook to Rotary Table: Distance with Blocks at Crown Stop: 37.65 Meters

F. SUBSTRUCTURE

Make: DRECO Model: 48'L X 32'8"W X 29'H Type: BOX ON BOX ON BOX
Maximum Table Load (Casing Capacity): 400,000 daN with 222,500 daN Setback
KB to Ground: 8.96 Meters
Clear Height for BOP's: 7.62 Meters

G. TRAVELLING EQUIPMENT

	CROWN BLOCKS	BLOCKS	BALES	ELEVATORS	TOP DRIVE
Make:	<u>DRECO</u>	<u>OILWELL</u>	<u>B.J.</u>	<u>BLOHM VOSS</u>	<u>TESCO</u>
Model:	<u>6-50" x 1 3/8"</u>	<u>A 500</u>	<u>2 3/4" X 108"</u>	<u>VESCL</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 (50") + 1 (60") FL</u>	<u>6 X 60" X 1 3/8"</u>		<u>WEB WILSON</u>	
API Bearing Rtg: (daN) @ 100 RPM	<u>445,000</u>	<u>445,000</u>		<u>318,000</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: QUALITY Model: LEG MOUNT Dead Load Rating: 42,000 daN

J. MUD PUMPS

PUMP # 1

Make: L.G.F. Model: RSF 1600 Power Rating: (1600 hp) 1 200 kw
Available Power to Pump (2' (1000 hp) 746 kw Stroke: 304 mm
Pulsation Dampner: Make: TSC Model: K20-7500 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: L.G.F. Model: RSF 1600 Power Rating: (1600 hp) 1 200 kw
Available Power to Pump (2' (1000 hp) 746 kw Stroke: 304 mm
Pulsation Dampner: Make: TSC Model: K20-7500 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 m Height: 2.44 m Useable Capacity: 120 m3
Tank # 2 # of Compartments: 3 m Height: 2.44 m Useable Capacity: 100 m3
Tank # 3 # of Compartments: _____ m Height: _____ m Useable Capacity: _____ m3

TRIP TANK:

Width: 1 m Length: 3.5 m HEIGHT: 3 m Useable Capacity: 6.62 m3

Trip Tank Location: CATWALK END OF SHAKER TANK

Trip Tank Pump: Make: DOUBLE LIFE Model: 4" x 3" x 13" w/9" Impeller Type: PEDESTAL 1 7/8"

Pill Tank Volume: 7.8 m3 8.17 m3

Premix Tank Volume: 87 m3

Total No. of Agitators: 6

Number of Mixing Hoppers: 2 Type: 4" VENTURI WITH 3"X3/4" NOZZLE
6" VENTURI WITH 3"X1" 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>	_____
Model:	<u>250</u>	<u>250</u>	<u>250</u>	_____
Size:	<u>6" x 5" x 11"</u>	<u>6" x 5" x 11"</u>	<u>6" x 5" x 11"</u>	_____
Impellor Size:	<u>279 mm</u>	<u>279 mm</u>	<u>279 mm</u>	_____
RPM:	<u>1,780</u>	<u>1,780</u>	<u>1,780</u>	_____
Input Power:	<u>60 HP</u>	<u>60 HP</u>	<u>60 HP</u>	_____

USED FOR:

PUMP # 1 _____
PUMP # 2 CHARGING PUMP
PUMP # 3 MIXING PUMP
PUMP # 4 MIXING PUMP

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: 2 - 100 KW 600 Volts
Breaker Rating: 2 - 100 Amps. Plug Type: AR1048

0. BLOW OUT PREVENTION EQUIPMENT

	ANNULAR	RAM # 1	RAM # 2	RAM # 3
Make:	SHAFFER	CAMERON	CAMERON	
Model:	BOLTED	U	U	
Type:	SPHERICAL	DOUBLE	SINGLE	
Size (mm):	346	346	346	
Working Press. (kPa)	34,700	70,000	70,000	
Connection Type:	STUD X FLANGE	STUD X STUD	STUD X STUD	
Nace:	YES	YES	YES	
Manual/Hydraulic:	HYDRAULIC	HYDRAULIC		
Ram Size (mm):		127		
Element Type:	NEOPRENE	NEOPRENE	NEOPRENE	NEOPRENE

SHOCK HOSES:

Make: GATES Pressure Rating: 7,500 psi

ACCUMULATOR

Make: DRILLING CONTROLS 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: 10,500 kPa
 Number of Stations: SEVEN

Master BOP Controls Location: ACCUMULATOR HOUSE
 Remote BOP Controls Location: DOG HOUSE Type: HTR4
 ELECTRO-HYDRAULIC INTERFACE ASSEMBLY
 2 HP PILOT PRESSURE PUMP

Number of Pressure Regulators: TWO Make: KOOMEY
 Model: 1-3/4" FULLFLOW AKR 1-3/4" FULLFLOW MKR Location: ACCUMULATOR HOUSE
 Number of N2 Bottles: 6 Size: 49 Liters Minimum Pressure: 10,500 kPa
 Number of Shear Ram Auxillary Booster Bottles: 4

PUMP # 1

Make: UNION Model: TD28 Type: TRIPLEX
 Pressure Rating: 20,700 kPa Pump Rate: 48.5 Liters/Min.

PUMP # 1

Make: UNION Model: TD28 Type: TRIPLEX
 Pressure Rating: 20,700 kPa Pump Rate: 48.5 Liters/Min.

HCR VALVES

Make: V & P Model: VP & PC Nace Trim: YES
 Number: TWO Size: 76 mm Pressure Rating: 70,000 kPa

CHOKE MANIFOLD

Make: VALVEWORKS Model: VW FC Nace Trim: YES
 Number: 17 Size: 76 mm Pressure Rating: 70,000 kPa
 Number: 2 Size: 54 mm Pressure Rating: 70,000 kPa

CHOKE # 1:

Make: SWACO Model: SUPERCHOKE Nace Trim: YES
 Size: 76 mm Pressure Rating: 70,000 kPa

CHOKE # 2:

Make: SWACO Model: SUPERCHOKE Nace Trim: YES
Size: 76 mm Pressure Rating: 70,000 kPa

DUAL UPPER KELLY COCK:

Make: HI-KALIBRE Model: 4185-SDB-IF428 Nace Trim: YES
Size: 176 MM - 5"XH Pressure Rating: 70,000 kPa

LOWER KELLY COCK:

Make: GRIFFITH Model: 724 Nace Trim: YES
Size: 159 mm Pressure Rating: 70,000 kPa

STABBING VALVE:

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

INSIDE BOP:

Make: HYDRIL Model: DB-42931-Y Nace Trim: YES
Number: 1 Size: 159 X 5" XH mm Pressure Rating: 70,000 kPa

BLEED OFF LINE:

Number: 10 Size: 114 XXH mm Nace Trim: YES
Pressure Rating: 70,000 kPa

KILL LINES:

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

CHECK VALVE:

Make: VALVEWORKS Model: VPR
Number: 2 Size: 76 Pressure Rating: 70,000 kPa

MUD GAS SEPARATOR # 1

Type: POORBOY Location: REMOTE - NEXT TO SHAKERS
Vessel OD: 1066 mm
Inlet Size: 114.3 mm
Outlet Size: 274 mm Line Size to Flarepit: 219 mm
Overall Height: 3.96 Meters
Distance Above Bottom of Tank: 50 cm
Design Level: CLASS V

MUD GAS SEPARATOR # 2

Type: POORBOY Location: REMOTE - NEXT TO SHAKERS
Vessel OD: 1066 mm
Inlet Size: 114.3 mm
Outlet Size: 274 mm Line Size to Flarepit: 219 mm
Overall Height: 3.96 Meters
Distance Above Bottom of Tank: 50 cm
Design Level: CLASS V

P. DRILL PIPE

No.: 291 JTS. 127 mm 29.03 kg/m GRADE: SS105 API Class: PREMIUM
Connections: 5" XH Tool Joint: OD: 162 mm ID: 76 mm
Hardness Factor: Tube: Minimum HRC: 27 Maximum HRC: 30
Tool Joint Minimum HRC: 32 Maximum HRC: 38
Hardbanding: X YES NO Type: ARNCO 300 XT

No.: 206 JTS. 127 mm 38.13 kg/m GRADE: SS105 API Class: PREMIUM
Connections: 5" XH Tool Joint: OD: 168 mm ID: 76 mm
Hardness Factor: Tube: Minimum HRC: 27 Maximum HRC: 30
Tool Joint Minimum HRC: 32 Maximum HRC: 38
Hardbanding: X YES NO Type: ARNCO 300 XT

Q. HEAVIWATE

No.: 50 JTS. 127 mm D.S.I.
Connections: 5" XH Tool Joint: OD: 165 mm ID: 76 mm
Hardbanding: X YES NO Type: DRILCO 1420
Stress Relief: X YES NO
Boreback: X YES NO

R. DRILL COLLARS

Number:	<u>6</u>	JTS.	OD:	<u>228</u>	mm	ID:	<u>76</u>	mm	Connections:	<u>7" H90 D.S.I</u>
Number:	<u>23</u>	JTS.	OD:	<u>172</u>	mm	ID:	<u>65</u>	mm	Connections:	<u>5" XH D.S.I</u>
Number:	<u>3</u>	JTS.	OD:	<u>276</u>	mm	ID:	<u>76</u>	mm	Connections:	<u>8 5/8" H90</u>
Number:	<u>2</u>	JTS.	OD:	<u>376</u>	mm	ID:	<u>76</u>	mm	Connections:	<u>8 5/8" H90</u>
Stress Relief:				<u>YES</u>						
Boreback:				<u>YES</u>						
Spiral:				<u>NO</u>						
Slip Recess:				<u>NO</u>						
Elevator Recess:				<u>NO</u>						
BIT SUBS:	<u>NO.</u>			<u>2</u>		Connections:	<u>6 5/8" REG BOX</u>		<u>7" H90 BOX</u>	
BIT SUBS:	<u>NO.</u>			<u>2</u>		Connections:	<u>4 1/2" REG BOX</u>		<u>5" XH BOX</u>	
XO SUBS:	<u>NO.</u>			<u>1</u>		Connections:	<u>5"XH BOX</u>		<u>7" H90 PIN</u>	
JUNK SUBS:	<u>NO.</u>			<u>1</u>		Connections:	<u>4 1/2" REG BOX</u>		<u>4 1/2" REG BOX</u>	
SAVER SUBS:	<u>NO.</u>			<u>2</u>		Connections:	<u>5" XH PIN</u>		<u>5"XH PIN</u>	
BIT SUBS:	<u>NO.</u>			<u>1</u>		Connections:	<u>7 5/8" REG BOX</u>		<u>7" H90 BOX</u>	

S. LIGHTPLANTS

CAMP

Plant # 1 Output: 100 kw Volts 280
Plant # 2 Output: 100 kw Volts 280

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: 2 - 100 amp
2 - 100 Amps 480 Volts 3 Phase

T. GENERAL

Drilling Instrumentation: PASON PENLESS
Automatic Driller: PASON
High Pressure Wash Guns: 2 - MH 32C MAGIKIST
Electric Sump Circulating Pump: 2" ELECTRIC & 4" ELECTRIC WATER PUMPS
Kelly Spinner: _____
Pipe Spinner: FINN MODEL 700
Kelly Hose: RED-L 75' SIZE: 76 mm Working Pressure: 51,000 kPa
Make Up Tongs Make: B.J. Size: D.B. Jaws Available: VARIOUS
Breakout Tongs: Make: B.J. Size: D.B. Jaws Available: VARIOUS
Drill Pipe Elevators: Make: WW T350 Size: 127 mm
Drill Collar Elevators: Make: BLOHM & VOSS Size: 127 mm
Matting: No.: 36 Size: VARIOUS
Fuel Storage: 33,000 Liters
Water Storage: 64 m3
Water Pumps: No.: TWO Size: 2 1/2" x 2" Output: 320 Liters/Min.

U. BOILER

Power Rating: 348 kw
Operating Pressure Rating: 690 kPa

V. LOADS

RIG 63 Including BOILER & LOADER
CAMP 8
EXCLUDING TOP DRIVE

W. OTHER MAJOR PIECES OF EQUIPMENT

PIPE TUBS FOR DRILL PIPE AND HEAVY WAITE
FLARE LINE, DEGASSER, AND TANK
COMPLETE VACUUM WITH TANK, MOTOR AND HOSES
TESCO ECI900 500 TON TOP DRIVE
12 - 8' x 40' TANK FARM MATTING
KOMATSU WA320 PIPE HANDLER, FORKS, BUCKET AND STINGER
PREMIX TANK