

## IHSA 4 TITAN Drilling Rig 2,000 HP



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**1. General Aspects**

Name / Team No.: IHSA 4 TITAN	
Capacity: 2,000 HP	



# Lines	Mast structure range (lbs)	1 3/8" Drill Cable Range (lb) 3:1 Safety Factor	100% limit Load (lb)
10	860,000		860,000

**2. Mast**

Manufacturer:	SUPERIOR DERRICK SERVICES,LLC
Model:	IDE-2000-HP-AC
Serial No:	M205-315
Height:	43.2816 m
Ability:	Ton



**2.1. Corona**

Manufacturer:	OIL COUNTRY ENGINEERING
Diagnostic No.:	11-2800
Number of Pulleys:	5 pulleys of 55", 1 pulley of 55" and 1 35" Deadline Pulley



**2.2. Hook**

Manufacturer:	AMERICANBLOCK
Serial No.:	Not Applicable
Model:	B60F500
Ability:	500 TON



**2.3. Top Drive**

Manufacturer:	CANRING
Model:	1250AC-681
Series:	950



**2.4. Hydraulic Power Unit**

Motor:	Electric
Mark:	NO PREMIUM
Model:	TE1BFOXON
Power:	100 HP



**2.5. Drilling Cable**

Manufacturer:	
Diameter:	1 1/2"



**2.6. Top Drive Hose**

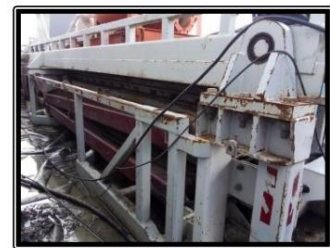
FROM:	
Working Pressure:	

**3. Substructure**

Manufacturer:	Superior Derrick LLC
Serial No.:	S-376
Model:	
Measurements:	25' x 600K Setback Slingshot sub
<b>ROTARY TABLE 37"</b>	
Motor	
Manufacturer:	Merimex Motor & Control
Serial No.:	12503
Power:	1130 HP

**3.1. Lifting System and Ramp for Pipe**

Manufacturer:	
Series:	ACC8K0008
Model:	AACC8K-CP1
<p>The equipment includes (2) maneuvering winches: brand (BRADEN) Model BG8V-59029-01-1N47821-001, with a capacity of 4,000 lbs. each.</p> <p>The ramp is operated by remote control with a cable-type assembly to push the tubes towards the door in the floor.</p> <p>Maximum weight 10,000 lb, maximum ramp length 47 ft (14.32 m)</p>	



**4. Winch**

Manufacturer:	GO
Model:	IDE 2000 HP AC
Serial Number:	112237
Drilling Cable: Power:	1 1/2
Maximum	2000 HP
Hook Load: 1,000,000 LBS (12 LINES)	
Powered by an Electric Motor	
Manufacturer:	AMERIMEX
Model:	AMD2000 550
Power:	2000 HP, 550 volts
Ability:	



Blower and Electric Motors	
Manufacturer:	WAY
Model:	02536

**5. Wedge System**

Manufacturer:	DCS-R
Diameter:	5"
Amount:	02



Manufacturer:	DCS-R
Diameter:	4 1/2"
Amount:	01



Manufacturer:	DCS-R
Diameter:	3 1/2"
Amount:	01

Manufacturer:	DCS-R
Diameter:	6 ½"
Amount:	02



Manufacturer:	DCS-R
Diameter:	3 ½"
Amount:	01

### 5.1. Elevators

Manufacturer:	NOV
Model:	MGG
Serial No.:	NI0128203
Quantity:	01

Manufacturer:	AOT
Model:	MGG
Series:	G0533-21
Amount:	01

Manufacturer:	NOV
Model:	GG
Series:	N10129798
Amount:	01

### 5.2. Power Wrenches

Manufacturer:	BVM
Serial No.:	24879-1B
Quantity:	01



Manufacturer:	BVM
Serial No.:	24879-1A
Quantity:	01

**6. Generators****6.1. Generator No. 1**

Manufacturer:	Caterpillar
Model:	3512C (SR4B)
Serial No.:	9RZ01107
Power:	1750 KVA
Engine Specification	
Manufacturer:	Caterpillar
Model:	3512C
Serial No.:	LLA02397
Power:	1101 Kw and 1200 RPM

**6.2. Generator No. 2**

Manufacturer:	Caterpillar
Model:	3512
Serial No.:	9RZ01088
Power:	1750 KVA
Engine Specification	
Manufacturer:	Caterpillar
Model:	3512C
Serial No.:	LLA02394
Power:	1101 Kw and 1200 RPM
COMPRESSOR	
Mark:	GARDEN DENVER INC.
Model:	EBM99M
Series:	S360060



**6.3. Generator No. 3**

Manufacturer:	Caterpillar
Model:	3512
Series:	9RZ01401
Force:	1750 KVA
Engine Specification	
Manufacturer:	Caterpillar
Model:	3512C
Series:	LLA02605
Force:	1101 Kw and 1200 RPM
COMPRESSOR	
Mark:	GARDEN DENVER INC.
Model:	EBM99M
Series:	S360067



**6.4. Generator No. 4**

Manufacturer:	Caterpillar
Model:	3512
Series:	LLA02393
Force:	1750 KVA
Engine Specification	
Manufacturer:	Caterpillar
Model:	3512
Series:	LLA02395
Force:	1101 Kw and 1200 RPM
Choper:	
Manufacturer:	Outdoor Resistive Load Bank
Model:	KA 874A/D50583
Series:	115
Choper:	
Manufacturer:	Outdoor Resistive Load Bank
Model:	KA 874A/D50582
Series:	114



**7. Control and Power Room**

Description:	Panel with 3 SCR cabinets, 1 Services and Generator cubicle, 1 Winch cabinet, 1 Top Drive cabinet, 1 MCC cabinet. Mounted in a structural enclosure.  With 4 inputs for 600V generators each
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**8. Well Control Equipment**

**8.1. Spherical Preventor**

Manufacturer:	HYDRILL
Model:	GX
Working Pressure:	10,000 PSI
Measurement:	13 5/8



**8.2. Double Ram Preventer**

Manufacturer:	T3 ENERGY SERVICES
Model:	6012
Working Pressure:	10,000 psi
Measurement:	13 5/8



**8.3. Single Ram Preventer**

Manufacturer:	T3 ENERGY SERVICES
Model:	6012
Working Pressure:	10,000 psi
Measurement:	13 5/8



**8.4. Accumulator**

Manufacturer:	Consolidated Pressure Control
Model:	5075
Serial No.:	4671
Maximum Capacity: Size:	153 Gal
	24 bottles, 11 gallons each

**8.5. Multiple Strangulation**

Manufacturer:	DENCO
Description:	19 Valves (18 valves of 3 1/16" 10000 psi and 1 of 2 1/16",)
Model:	N/A
Working Pressure:	10,000 PSI

**8.6. Pump Manifold**

Manufacturer:	DENCO
Description:	6 Valves (5 valves of 3 1/16" 10000 psi and 1 of 2 1/16",)
Model:	N/A
Working Pressure:	10,000 PSI

**8.7. Degasser**

Manufacturer:	MI SWACO
Part No.:	9620893-01
Series:DEG-M-343	DEG-M-343



**8.8. Gas-Mud Separator**

Manufacturer:	Piping Solutions LLC
Description:	48" OD x 12 SM/SM
Serial No.:	5007
Volume:	9 M3
Pressure:	150 psi

**8.9. Ecological Burner**

Combustion Capacity: 4,000 Bpd	
Ignition System:	Remote Control
Working Pressure:	1,440 PSI
Volume:	3 m3

**8.10. Ecological Burning Dam**

Dam Capacity:	20 m3
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**9. Mud Pumps****9.1. Mud Pump No. 1**

Manufacturer:	WEATHERFORD
Model:	MP16
Serial No.:	N. A.
Maximum Performance:	1600 HP
<b>Electric Motor</b>	
Manufacturer:	Amerimex
Model:	N. A.
Capacity:	1130 HP



**9.2. Mud Pump No. 2**

Manufacturer:	WEATHERFORD
Model:	MP16
Serial Number:	N. A.
Maximum Performance:	1600 HP
<b>Engine</b>	
Manufacturer:	
Model:	Amerimex
Serial No.:	N. A.
Capacity:	1130 HP

**10. Solids Control Team****10.1. Tremor No. 1**

Manufacturer:	ITALVIBRAS
Serial No.:	CA-469588
Model:	CDX18-5900

**10.2. Tremor No. 2**

Manufacturer:	ITALVIBRAS
Serial Number:	CB-57,650
Model:	CDX18-5900



**10.3. Tremor No. 3**

	ITALVIBRAS
Manufacturer:	CA-469,711
Serial No.: Model:	CDX18-5900



**11. Tanks**

**11.1. Fuel Tank**

Ability:	80 m3
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**11.2. Water Tank**

Ability:	70 m3
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**11.3. Mud Tank System**

Description:	SUCTION DAM
Total sludge volume:	496.8942 Bis (79 m3)
Ident No.	IHSA-TITAN-021



Description: SETTLEMENT DAM	
Total sludge volume:	496.8942 Bls (79 m3)
Ident No.	IHSA-TITAN-023



Description: MIXING DAM	
Total volume of 496.8942 Bls (79 m3) sludge:	
Ident No.	IHSA-TITAN-022



## 12. Lighting System for the Drilling Equipment

Description:	The equipment features an explosion-proof lighting system, fluorescent lamps, and sodium vapor lamps.
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## 13. Grounding System and its Components

Description:	The equipment has a grounding system through the electrical system of the equipment, connected to 15 grounded rods and an independent electrode for the lightning rod.
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