



EXALO

GRUPA ORLEN

FRACTURING EQUIPMENT

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The Frac Fleet consists of the following equipments, comprising of:

- Frac Units FC-1251 truck mounted – 4 qty.
- Frac Unit TPT-2250 trailer mounted – 1 qty.
- Manifold IC-230 skid mounted,
- Blender MC-60 truck mounted,
- Sand transporter + tractor
- Monitoring of Frac Fleet MB VAN AH2-4R.



FRACTURING EQUIPMENT

TRUCK MOUNTED FRAC UNIT – FC 1251



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TRUCK MOUNTED FRAC UNIT – FC 1251

Technical parameters of Frac Unit is as follow:

- Steward & Stevenson manufacturer,
- Mercedes Benz chassis type 2538 6x4 381HP,
- Detroit Diesel deck engine 16V-92TAB 1250 HP,
- SPM TWS 1300 triplex pump 1300 BHP,
- Allison Transmission DP 8962,
- Overall Length: 35 ft. - 9 in. (10.83 meters),
- Overall Width: 8 ft. - 0 in. (2.44 meters),
- Overall Height: 12 ft. - 5 in. (3.80 meters),
- Approximate weight: 55115.5 Lbs. (25,000 Kgs).

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TRUCK MOUNTED FRAC UNIT – FC 1251

SPM TWS 1300 triplex pump is mounted on each four (4) Frac Unit FC-1251.

Currently SPM triplex pumps on the Frac Unit FC-1251 are rigged up with the following Fluid End sizes:

- Two (2) Frac Units FC-1251 are fitted with SPM Fluid End with 3.75" plunger diameter,
- Two (2) Frac Units FC-1251 are fitted with SPM Fluid End with 5" plunger diameter,

Maximum Working Pressure of Frac Unit as below:

Plunger Size	:	6"
Maximum Discharge Pressure	:	7,075 PSI (488 bar)
Maximum Discharge Rate	:	882 GPM (3,338 LPM)
Plunger Size	:	5"
Maximum Discharge Pressure	:	10,000 PSI (689 bar)
Maximum Discharge Rate	:	612 GPM (2,316 LPM)

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Plunger Size	:	3.75"
Maximum Discharge Pressure	:	15,000 PSI (1,034 bar)Maximum
Discharge Rate	:	345 GPM (1,300 LPM)

In addition, there are the following sizes of SPM TWS 1300 Fluid Ends (as a spare) that can be interchangeably mounted to Frac Unit FC-1251 depending on your job:

- Four (4) SPM TWS 1300 Fluid Ends with 5" plunger diameter,
- Two (2) SPM TWS 1300 Fluid Ends with 6" plunger diameter,

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TRAILER MOUNTED FRAC UNIT – TPT 2250



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TRAILER MOUNTED FRAC UNIT – TPT 2250

- Rolligon manufacturer,
- Detroit diesel deck engine 12V4000 2250 HP,
- Heavy duty oilfield type trailer with 2" king pin,
- Allison transmission S9810M,
- SPM TWS 2250 triplex pump 2250 BHP,
- Plunger size 5"
- Maximum working pressure 11,459 PSI (790 bar),
- Maximum discharge rate 673 GPM (2,547 LPM),
- Height 12'4" (3.8 m),
- Width 8'4" (2.55 m),
- Length (kingpin to bumper) 39'4" (12.0 m),
- Weight 62,000 lb (28,000 kg).

FRACTURING EQUIPMENT

MANIFOLD IC-230



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FRACTURING EQUIPMENT

MANIFOLD IC-230

- Steward & Stevenson manufacturer,
- Skid mounted,
- Capable to connect up to six (6) Frac Units,
- Low and high pressure manifolds,
- Max. working pressure 15,000 PSI,
- HP inputs to the manifold - 6 x 2" F fig.1502,
- HP outputs from manifold - 2 x 3" M fig.1502,
- Length: 8.0 m,
- Width: 2.50 m,
- Height: 2.75 m,
- Weight: 13,000 kg.

FRACTURING EQUIPMENT

BLENDER MC-60



BLENDER

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BLENDER MC-60

- Steward & Stevenson manufacturer,
- Mercedes 2644 6X4 truck mounted unit,
- Fluid rate : 60 BBL/Min (9.5 m³/min),
- Max. discharge press : 70 psi (4.8 bar),
- Max. discharge dens. : 20 lbs. sand added per gallon of water,
- Dry chemical rate : 1.3 ft³/min total maximum (0.037 m³/min),
- Liquid chemical rate : 15 USGPM total maximum (57 LPM),
- Proppant input 15,500 lb/min (7000 Kg/min.) max.

FRACTURING EQUIPMENT

SAND TRANSPORTER WITH TRACTOR



Trailer mounted sand/proppant transport box with feeding system,

- Storage capacity – 23 tons,
- Dual box type compartment,
- Lifting feeding system.

FRACTURING EQUIPMENT

FRACTURING INSTRUMENT AND MONITORING VAN AH2-4R



DATA VAN

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FRACTURING EQUIPMENT

FRACTURING INSTRUMENT AND MONITORING VAN AH2-4R

Stewart & Stevenson model AH2-4R VAN, Mercedes Van mounted allows you to control, monitor and record a progress of treatment operations.

The system can monitor:

- Operation of max. up to six (6) Frac Units FC-1251,
- Sand concentration,
- Blender output and input flow rate,
- Working pressure,
- Annulus pressure.

FRACTURING EQUIPMENT

FRACTURING INSTRUMENT AND MONITORING VAN AH2-4R

The operator interface device is separate and installed in the cabin of VAN. Device includes a graphic LCD display complete with keypad and hot keys. This panel is used to program frequency K-Factors, current scaling values and offset values.

Meyer's MView is a versatile software package that are used to display real time data in a number of different formats (digital meter, time based graphs, gauges, etc.).

