



Precision Air Drilling Services

Equipment Information & Specifications





Mist Pump Specifications





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Engine Specifications:

Item Description:	Item Specification:
Manufacturer:	Caterpillar
Model:	3054 DIT
Description:	4 cycle, 4 cylinder, 4-liter displacement, turbocharged, mechanically injected diesel. See sheet attached.
RPM:	1800 RPM for this application
HP:	100 HP at 1800 RPM
Bell Housing:	SAE#3
Starter Voltage:	Electric 12V
Alternator:	12V
Battery:	12V, one Caterpillar 8D, maintenance free
Radiator:	By Caterpillar
Turbo-after cooler:	None
Fan:	By Caterpillar, suction type

Pump Specifications:

Item Description:	Item Specification:
Manufacturer:	National Oil well, see attached sheet attached
Model:	80T-3M, New
Plunger Size:	1- 3/8", three plungers
RPM:	500RPM
Gear Reduction:	3.5:1 NEW
Max Flow:	28 GPM
Max Pressure:	4265 PSI continuous, per plunger load specification
Fluid End Max Pressure:	4265 PSI
Inlet:	2-1/2" ANSI 150#RF
Outlet:	1-1/2" API 5000#RJ



Transmission Specifications:

Item Description:	Item Specification:
Manufacturer:	Borg Warner
Model:	T-18
Speed:	4 speed, no reverse, 4 th gear is 1: 1
Clutch:	Single plate, manual, rides directly on Caterpillar flywheel
Outlet:	Drive line to gear reduction unit

Tank Specifications:

Item Description:	Item Specification:
Capacity:	Two roughly 42 BBL chambers
Accessories:	Rounded bottoms, with drains, agitator jets, pump inlet screen and recycle

Skid Specifications:

Item Description:	Item Specification:
Skid:	(3) W12x39lb/ft
Runners:	W8x28
Crossmembers Deck::	Seal Welded, with checkered plate



Piping Specifications:

Item Description:	Item Specification:
Size:	2" SCH160 main flow, smaller for relief's etc, carbon Steel, screwed fittings
Connections:	2" hammer unions
Discharge Relief Setting:	4265 psig, certification papers available
Recycle to Tank:	Yes, either chamber

Choke Valves Specifications:

Item Description:	Item Specification:
Chokes Valves:	(2) 2" threaded with ceramic plates, one on discharge, one on recycle to tank

Controls Specifications:

Item Description:	Item Specification:
Panel:	Small panel with ignition key, engine oil pressure, hour meter, tachometer, voltmeter
Shutdowns:	As provided by Caterpillar
Gauges:	Locally mounted pressure gauges for discharge, liquid filled



Fuel Tank Specifications:

Item Description:	Item Specification:
Capacity:	Roughly 24 gallons
Feed Requirements	One gravity fed line

Accessories:

Item Description:	Item Specification:
Tool Box:	Yes, with latch that will accept lock
Battery Box:	Yes, with latch that will accept lock
Guards;	Driveline has guard, fan guards by Caterpillar

Paint:

Item Description:	Item Specification:
Manufacturer:	Ameron
Coats:	One coat enamel primer, one coat synthetic urethane paint.
Color:	Your choice

Dimensions & Weight:

Item Description:	Item Specification:
Size:	19' 107/2" Long approx, 8' Wide
Weight:	Approximately 17,500 lbs