



WT WELL TESTING



When Experience Counts!

WELLTESTING

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WELL TESTING LOCATIONS

Well Testing USA Locations

Corporate	(800) 348-3932
Midland, TX	(432) 563-0521
Monahans, TX	(432) 943-2556
Cleburne, TX	(817) 645-1955
Hobbs, NM	(505) 397-4622
Nacogdoches, TX	(936) 559-5300
Searcy, AR	(501) 327-2229
Grand Junction, CO	(970) 248-8030
Canonsburg, PA	(724) 746-1168
Williamsport, PA	(724) 746-1168
Williston, ND	(701) 774-5000
Conway, AR	(501) 505-8658

Well Testing Mexicana

Reynosa	+52 1 899-285-8383
Tamaulipas	

USA Corporate Sales Offices

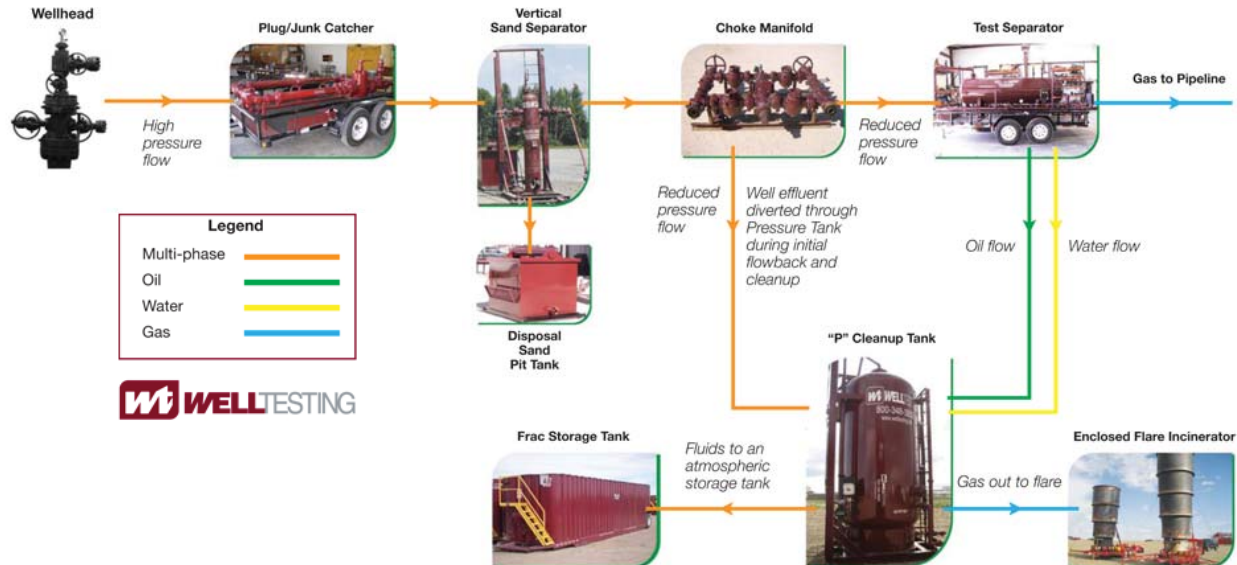
Midland, TX	(432) 620-0600
	(432) 664-2204
Monahans, TX	(432) 556-8591
Hobbs, NM	(575) 631-1330
	(505) 397-4622
Cleburne, TX	(817) 645-1955
Nacogdoches, TX	(936) 546-8158
	(936) 645-0527
	(832) 444-1154
Grand Junction, CO	(432) 425-5245
Searcy, AR	(501) 499-3171
Williston, ND	(432) 557-1238
	(701) 580-0998
Canonsburg, PA	(724) 746-1168

Well Testing Mexicana Sales Office

Reynosa	(432) 557-8729
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Well Testing Inc., a wholly owned subsidiary of Oil States International Inc. (OIS, NYSE), was founded in Monahans, TX in 1968. The company is one of the leading providers of surface production testing services in US markets. The company has developed a strong reputation for excellent, competent, and reliable service as well as one of the highest quality fit for purpose equipment fleets in the industry. Additionally, the company has a rapidly growing fabrication arm that specializes in gas measurement equipment, permanent production equipment, and on/offshore surface well testing equipment packages for international companies

Vamp System



The Vapor Arrest Management Process is a tool used to eliminate the environmental impact of vapors released into the atmosphere during well cleanup and flowback. Well Testing offers a closed loop system that is designed to accomplish the ultimate goal of an effective transition from fracturing to long term production while significantly reducing impact to the environment.

This system begins with solids management through the plug/junk catcher and sand separator. A separate disposal sand pit is utilized for effective handling of solids storage. During initial flowback and cleanup, the well effluent is diverted through the large volume Pressure Tank in order to de-energize fluids. The gas is sent to the incinerator and directing liquids to an atmospheric tank for final storage. The final liquid in the frac tank should be de-energized at this point.

Once the initial cleanup of the well is complete, the well effluent is turned through the test separator, so that the gas can be sent down the sales line. The liquids in the separator are all sent to the "P" Tank to be de-energized, then on to the frac tank for storage. All gas vapors that are generated to the "P" Tank are measured prior to going to the incinerator for clean burn. The incinerator is designed to flare gas at almost 100% efficiency reducing emission of harmful heavy alkanes into the atmosphere. The process occurs entirely in the enclosed flare making the burning gas virtually unnoticeable night or day. Well fluids are metered and stored in an atmospheric storage tank downstream of the "P" Tank. The overall system offers near zero emission of well gasses into the atmosphere and eliminates a visual flare complimenting the overall purpose of a controlled flowback of the well for maximized long term production.

Combination Test Unit



Product Description: Combination Test Unit

The combination unit is a unique testing unit due to the fact it incorporates a manifold, ball catcher, sand separator, three phase separator, and meter run all on one trailer mounted unit. The manifold has 2" plug valves, positive and/or adjustable chokes, 1502 fittings and is rated for 15,000 psi service. The ball catcher is designed to capture debris from the well stream so it doesn't plug other components within the test unit. The upright sand separator uses centrifugal force to spin the solids out of the well stream. It is rated for 5,500 psi working pressure, has 1502 fittings on the inlet, outlet, and drain. The three phase separator is used to separate the oil and water from the gas stream and is rated for 1,440 psi working pressure. It is equipped with oil and water sight level glasses and a 2" pop off valve and rupture disk. The meter run is 4" and has a Daniels orifice fitting and can be equipped with a digital meter or Barton chart recorder.

Technical Specifications for Combination Test Unit	
Working Pressure:	Manifold: 15,000 psi, Ball Catcher: 6,000 psi, Sand Separator: 5,500 psi, Separator: 1,440 psi
Service:	H ₂ S
Standard:	NACE MRO175
Code:	ASME
Safety Relief Valves:	Separator: 2" Pop-Off Valve and 2" Rupture Disk Sand Separator: 2" Pop-Off Valve
Inlet Union:	1502
Oil / Water Outlet Union:	Figure 200
Gas Outlet Union:	Figure 200
Dimensions:	Ball Catcher: 4"x 6' Sand Separator: 24"x 72" Separator: 30"x 10'
Meter Run:	4"

JUMBO TEST UNIT



Product Description: Jumbo Test Unit

The Jumbo test unit incorporates a large vessel to meet the high volume requirements of higher producing wells. The separator is equipped with a larger volume tank as well as piping to effectively separate oil and water from high volume wells. This unit is equipped with 6" flanged outlet piping, along with a 6" meter run which can be outfitted with a digital meter or Barton chart recorder. It also comes with safety relief valves, a backpressure valve, and oil and water sight level glasses. This skid mounted unit has a working pressure rating of 1,440 psi.

Technical Specifications for Jumbo Test Unit	
Working Pressure:	1,440 psi
Service:	H ₂ S
Standard:	NACE MR0175
Code:	ASME
Safety Relief Valves:	2" Pop-Off Valve and Rupture Disk
Inlet Union:	1502
Oil / Water Outlet Union:	Figure 200
Gas Outlet Union:	Figure 200
Dimensions:	42" -54" x 10' -15'
Meter Run:	6"

500 PSI TEST SEPARATOR



Product Description: 500 psi Three Phase Separator

This vessel is used to separate the oil and water portions of the well stream as well as the gas. The separator is equipped with a large volume tank as well as the piping that regulates and channels well fluids. Safety devices are installed to prevent over pressuring of the equipment. This trailer mounted vessel is rated for 500 psi and is equipped with an orifice fitting on a 3" meter run.

Technical Specifications for 500 psi Test Separator	
Working Pressure:	500 psi
Service:	H ₂ S
Standard:	NACE MRO175
Code:	ASME
Safety Relief Valves:	2" Pop-Off Valve and 2" Rupture Disk
Inlet Union:	1502
Oil / Water Outlet Union:	Figure 200
Gas Outlet Union:	Figure 200
Dimensions:	36" x 10'
Meter Run:	3"

1440 PSI TEST SEPARATOR



Product Description: 1,400 psi Three Phase Separator

This vessel is used to separate the oil and water portions of the well stream as well as the gas. The separator is equipped with a large volume tank as well as the piping that regulates and channels well fluids. Safety devices are installed to prevent over pressuring of the equipment. This trailer mounted vessel is rated for 1,400 psi and is equipped with a Daniels Senior Orifice fitting on a 6” meter run.

Technical Specifications for 1440 psi Test Separator	
Working Pressure:	1,400 psi
Service:	H ₂ S
Standard:	NACE MR0175
Code:	ASME
Safety Relief Valves:	2” Pop-Off Valve and Rupture Disk
Inlet Union:	1502
Oil / Water Outlet Union:	Figure 200
Gas Outlet Union:	Figure 200
Dimensions:	24” X 10’
Meter Run:	Up to 6”

4 PHASE TEST SEPARATOR- UNDERBALANCED DRILLING SUPPORT EQUIPMENT



Product Description:

300 psi Four Phase Skid Mounted Separator

This device is utilized for our underbalanced drilling services. It can function as a 4 phase separator by separating oil, water, gas and solids from the well stream. The underbalanced drilling technique is one that will allow the operating company to basically test the well, while still in the drilling mode, thus eliminating the need for the expensive Drill Stem Testing (DST) service presently required to make the “plug or complete” decision on exploration wells today.

Technical Specifications for 4 Phase Test Separator	
Working Pressure:	300 psi
Service:	H ₂ S
Standard:	NACE MR O175
Code:	ASME
Safety Relief Valves:	2" Pop-Off Valve and 2" Rupture Disk
Inlet Union:	Figure 100
Oil / Water Outlet Union:	Figure 100
Gas Outlet Union:	Figure 100
Dimensions:	7'x 40'
Meter Run:	6"

6,500 PSI TEST UNIT



Product Description: 6,500 psi Heater-2 or 3 phase/1440 psi Separator skid mounted stack-pack.

A stack-pack is equipped with an indirect gas fired heater and separator mounted alongside each other on a skid or trailer. As the pressure is reduced by use of a choke, this causes the temperature to dramatically decrease downstream creating an environment often conducive to hydrate formation. The formation of hydrates may cause malfunction of separation further downstream. The indirect heater is used to prevent hydrates from forming when upstream pressure is reduced at the choke. Inside the heater is a split coil in a water bath equipped with an intermediate adjustable choke.

Also on the stack-pack is a two or three phase separator. This vessel is used to separate the liquid and gas of the well stream. The separator is equipped with a large volume tank and piping that regulates and channels well fluids. Safety devices are installed to prevent the over pressuring of the equipment. Vessel capacities differ according to velocity, pressure, temperature, and density of liquids.

Technical Specifications for 6,500 psi Line Heater	
Working Pressure:	6,500 psi
Working Temperature Range:	32°F to 200°F
Service:	H ₂ S
Tubing Coils:	2" or 3"
Inlet Connection:	1502
Outlet Connection:	1502
Heating Capacities:	1.5 MMBTU per Hour
Mounting:	Skid mounted stack-pack with separator
Technical Specifications for 1440 psi Test Separator	
Working Pressure:	1,440 psi
Service:	H ₂ S
Standard:	NACE MR0175
Code:	ASME
Safety Relief Valves:	2" Pop-Off Valve and Rupture Disk
Inlet Union:	1502
Oil / Water Outlet Union:	Figure 200
Gas Outlet Union:	Figure 200
Dimensions:	24" X 10'
Meter Run:	4"

15,000 PSI TEST UNIT



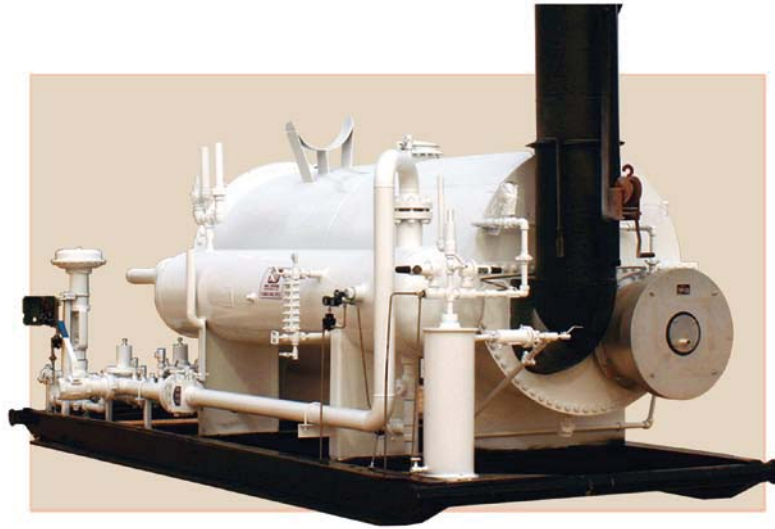
Product Description: 15,000 psi Heater-2 or 3 phase/1440 psi Separator skid mounted stack-pack.

A stack-pack is equipped with an indirect gas fired heater and separator mounted alongside each other on a skid or trailer. As the pressure is reduced by use of a choke, this causes the temperature to dramatically decrease downstream creating an environment often conducive to hydrate formation. The formation of hydrates may cause malfunction of separation further downstream. The indirect heater is used to prevent hydrates from forming when upstream pressure is reduced at the choke. Inside the heater is a split coil in a water bath equipped with an intermediate adjustable choke.

Also on the stack-pack is a two or three phase separator. This vessel is used to separate the liquid and gas of the well stream. The separator is equipped with a large volume tank and piping that regulates and channels well fluids. Safety devices are installed to prevent the over pressuring of the equipment. Vessel capacities differ according to velocity, pressure, temperature, and density of liquids.

Technical Specifications for 15,000 psi Line Heater	
Working Pressure:	15,000 psi
Working Temperature Range:	32°F to 200°F
Service:	H ₂ S
Tubing Coils:	2.5" or 4"
Inlet Connection:	1502
Outlet Connection:	1502
Heating Capacities:	1.5 MMBTU per Hour
Mounting:	Skid mounted stack-pack with separator
Technical Specifications for 1440 psi Test Separator	
Working Pressure:	1,440 psi
Service:	H ₂ S
Standard:	NACE MR0175
Code:	ASME
Safety Relief Valves:	2" Pop-Off Valve and Rupture Disk
Inlet Union:	1502
Oil / Water Outlet Union:	Figure 200
Gas Outlet Union:	Figure 200
Dimensions:	24" x 10'
Meter Run:	4"

20,000 PSI TEST UNIT



Product Description: 20,000 psi Heater-2 phase/1440 psi Separator skid mounted stack-pack.

A stack-pack is equipped with an indirect gas fired heater and separator mounted alongside each other on a skid or trailer. As the pressure is reduced by use of a choke, this causes the temperature to dramatically decrease downstream creating an environment often conducive to hydrate formation. The formation of hydrates may cause malfunction of separation further downstream. The indirect heater is used to prevent hydrates from forming when upstream pressure is reduced at the choke. Inside the heater is a split coil in a water bath equipped with an intermediate adjustable choke.

Also on the stack-pack is a two or three phase separator. This vessel is used to separate the liquid and gas of the well stream. The separator is equipped with a large volume tank and piping that regulates and channels well fluids. Safety devices are installed to prevent the over pressuring of the equipment. Vessel capacities differ according to velocity, pressure, temperature, and density of liquids.

Technical Specifications for 20,000 psi Line Heater	
Working Pressure:	20,000 psi
Working Temperature Range:	32°F to 200°F
Service:	H ₂ S
Tubing Coils:	3" or 4"
Inlet Connection:	1502
Outlet Connection:	1502
Heating Capacities:	2.4 MMBTU per Hour
Mounting:	Skid mounted stack-pack with separator
Technical Specifications for 1440 psi Test Separator	
Working Pressure:	1,440 psi
Service:	H ₂ S
Standard:	NACE MR0175
Code:	ASME
Safety Relief Valves:	2" Pop-Off Valve and Rupture Disk
Inlet Union:	1502
Oil / Water Outlet Union:	Figure 200
Gas Outlet Union:	Figure 200
Dimensions:	24" x 10'
Meter Run:	4"

FLARE STACKS



Product Description: Flare Stacks

Well Testing's flare stacks have a proprietary electronic igniter system that is battery and solar powered. It can be set to ignite manually, every minute, or every five minutes. It can light either bottled gas for a pilot, or light the gas going through the main burner without a pilot. The burner assembly, which houses the igniter, can be raised or lowered independently from the main stack allowing service without lowering the main stack. These flare stacks can be skid or trailer mounted, and erected with an electric or hand winch. These units can also be equipped with an upright separator to safeguard against liquids from reaching the flare stack. The main stacks are made from 4"-6" pipe and range from 10'-50' in height. Trailer mounted units are equipped with 120' of flow line.

Technical Specifications for Flare Stacks	
Inlet Union:	4" Figure 200 or 6" #150 Series Flange
Service	H ₂ S
Stack Diameter:	4"- 6"
Igniter:	Electronic
Igniter Output:	35,000 Volts DC
Height:	Up to 50'

INCINERATOR



Product Description: Incinerator

The Incinerator is an inclosed flare system, which is an eco-friendly alternative to the standard open flare stack. It has up to a 20:1 turn-down ratio which produces an extremely high destructive removal efficiency (DRE). This almost completely eliminates the release of the methane and heavier alkane gases into the atmosphere. Another key benefit of the incinerator is its concealed flame, which lowers negative exposure to the general public, making it good for urban use. Radiant heat is also dramatically decreased, which allows use in small locations where space is limited. It has a continuous pilot that allows use in small locations where space is limited. It has a continuous pilot that keeps it “on the ready” for intermittent gas releases. The incinerator is a free-standing unit and requires no stakes or anchors to be driven into the ground.

Applications:

- Solution gas disposal
- Tank vapor disposal
- Pigging station flaring
- Under balanced drilling
- Flowback or cleanup flaring
- Sour gas disposal
- Odor control or fugitive emissions

Technical Specifications for Incinerator

	GFS-1000	GFS-1500
Waste Gas Inlet:	4" ANSI #150 flange	4" ANSI #150 flange
Pilot Gas Inlet:	¼" NPT	¼ " NPT
Overall Height:	18.5 Ft.	23.5 Ft.
Max Heat Release:	1,000,000 BTU/Hr	1,000,000 BTU/Hr.
Flow Rating:	960,000-1,000,000 MM/SCF/D	1,300,000-1,500,000 MM/SCF/D

SAND SEPARATORS



Product Description: Sand Separators

Sand separators are used to remove solids from the well stream. The sand separator is designed to use centrifugal force to spin the solids out of the well stream. Gravity causes the solids to settle at the bottom of the vessel. These solids may be removed by the operator as needed. Well Testing offers a variety of Sand Separators to meet the specific needs of the customer, and as always, personnel are standing by to deliver, rigup, and operate this equipment at your location.

Technical Specifications for Sand Separators	
Working Pressure:	3,000, 5,000 & 6,000 psi
Working Temperature:	200°F
Service:	H ₂ S
Standard:	NACE MR0175
Code:	ASME
Inlet:	1502
Outlet:	1502
Drain:	1502

BALL/PLUG CATCHERS



Product Description: Ball-Plug - Trash Catcher

Well Testing catchers allow trouble-free and continuous well flow. They have four inch collection tubes that trap frac balls, plug drillings, or any other debris that may be present during flow-back. Dual flow designs allow continuous flow while one side of the unit is being serviced. They are placed first in line of all equipment to prevent chokes, sand separators or any other downstream equipment from getting plugged up.

Technical Specifications for Ball / Plug Catchers	
Working Pressure:	7,500 – 10,000 psi
Service:	H ₂ S
Inlet:	4" 1002 or 2" 1502
Outlet:	2" 1502
Mounting:	Trailer or Skid
Collection Tubes:	4"

FLOW DIVERTER



Product Description: Flow Diverter

The flow diverter header is a skid mounted manifold system that allows 1-8 wells or inputs to be tied together to 1-4 outputs or test units. Each input has a separate adjustable choke with carbide stem and seats and a check valve, with a pressure rating of 15,000 psi. The output piping is six inch with a pressure rating of 6,000 psi. The valves are 2" plug type with a 15,000 psi rating. The systems can easily be tied together to double the amount of inputs as illustrated above.

Technical Specifications for Flow Diverter	
Working Pressure:	15,000 psi high side – 6,000 psi low side
Service:	H ₂ S
Inlet Union:	1502
Outlet Union:	4"602
Valves:	2" plug
Check Valves:	2" dart
Skid Dimensions:	7'x10'

FLOWBACK TANKS



Product Description: Closed Top Flowback Tank

Well Testing offers closed top flowback tanks equipped with either a positive or adjustable choke. Flowback tanks are also equipped with a gas diffuser. The flowback tank allows the operator to turn well flow into the tank for CO₂, energized fluids, and acid. This innovative technique minimizes sand cutting and freezing. This tank allows for the retention and measurement of well stream liquids during flowback.

Technical Specifications for Flowback Tanks	
Working Pressure:	Atmospheric
Capacity:	500 Barrels
Choke:	Adjustable or Positive
Gas Diffuser:	6' X 10"
Dimensions:	45'x 8.5'x 9.5'

CHOKE MANIFOLD



Product Description: 15,000 psi Choke Manifold

During the testing and flowback process a choke manifold is used to reduce the pressure of the well and control the well stream flow. This ensures that fluctuations in downstream line pressure have no effect on the well flow rate. The choke manifold is used to establish critical flow. This critical flow exists when the downstream pressure is .55 or less of the upstream pressure. Flow rate calculations may be determined once critical flow is established.

Well Testing has a variety of Choke Manifold units for testing and flowback purposes. Well Testing is available at a moments notice to deploy this equipment and well technicians to the wellsite.

Technical Specifications for Choke Manifold	
Working Pressure:	15,000 psi
Working Temperature:	-4°F to 250°F
Service:	H ₂ S
Standard:	NACE MRO175
Valve Types:	Plug
Choke Types:	Adjustable and Positive
Inlet:	1502
Outlet:	1502

Manufacturing



Well Testing Manufacturing specializes in Gas Measurement equipment for projects small and large. From 2" - 20," the company has fabricated orifice meter runs for customers across the country and continues to be one of the leading providers of this equipment. Well Testing Inc. is committed to accurate measurement whether on a marginal well site or high volume custody transfer facility. In pursuit of this goal, our quality assurance program is unmatched in the industry to ensure that each tube is in strict compliance with API-AGA 14.3. All of our products and services are customized, engineered and fully documented to meet the diverse needs of our clients.

- 2"-20" Orifice Meter Runs
- Header Stations and Pipeline Products
- Compressor Skids
- Chart Recorders
- Electronic Flow Meters
- Instrumentation and Accessories
- Ultrasonic Meter Runs
- Housing Skids
- Offshore Packages
- Complete EFM Measurement Packages
- Repair / Refurbishment
- Field Tech Services
- Parts Sales
- Inspection and Cleaning
- Pipe Spools

Manufacturing



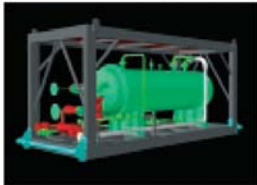
The manufacturing division was originally utilized to provide surface testing equipment for the company's rental fleet. To meet the growing market needs, WTI has built customized production equipment for our clients.

This customization can be for well site production equipment or complex process facilities where precision and functionality of equipment is critical. Equipment is designed and engineered for the needs of the well or project to ensure all production conditions are met prior to construction.

The ASME code shop is staffed with the experienced personnel trained to adhere to ASME Sec VIII, Div 1 for pressure vessels. The quality assurance standards practiced are in compliance with the client's domestic or international requirements.

- Production Test Separators
- Slug Catchers
- Coalescer Filter Separators
- Absorber / Scrubber Vessels
- Glycol Regen Skids
- Fuel Scrubbers
- Heater Treaters
- Gas Fired Line Heaters
- Sand Separators
- Water Knockouts

Manufacturing



- Surface Test Trees
- Emerg. Shut Down Valves & Control Stations
- Solids-Sand Filters & Cyclones
- Choke Manifolds
- Steam Heat Exchangers
- Diesel / Gas Fired Indirect Line Heaters
- Test Separators
- Surge / Test Tanks
- Gauge Tanks
- Diverter Manifolds
- Pump Units
- Flow Iron
- Data Acquisition Systems
- Trailer Mounted Fully Integrated Systems
- Offshore Container Compliant Skids

Well Testing Inc. has over 40 years of experience in surface production testing services. This expertise combined with its manufacturing capabilities gives the company a unique perspective in direct sales of production equipment internationally. The direct sales team is comprised of individuals with operating and fabricating experience onshore and offshore throughout the world. The team is

experienced in individualizing packages to meet each client's specific needs. Our group understands the importance of quality documentation and precision fabrication to meet the rigorous demands of high-profile projects abroad. Also available are technical consulting services to aid clients in fulfilling requirements in tenders as well as putting bid packages together.