



www.petrorigs.com



www.petrorigs.com



www.petrorigs.com



www.petrorigs.com



www.petrorigs.com



www.petrorigs.com



www.petrorigs.com



www.petrorigs.com

www.petrorigs.com

R-15





www.petrorigs.com



www.petrorigs.com



www.petrorigs.com



www.petrorigs.com

www.petrorigs.com





www.petrorigs.com



www.petrorigs.com



www.petrorigs.com

The image shows the interior of a control room or a similar industrial facility. A large, light-colored console or desk dominates the center of the frame. On the left side, a thick bundle of black cables is bundled together and secured with a metal clamp. In the center, a yellow and black piece of equipment, possibly a control panel or a specialized device, is visible. Several white cables run vertically from the top of the console down to the equipment. The floor is a light-colored, textured surface, possibly concrete or a specialized industrial floor. On the right side, there is a window or a large opening in the wall, through which a yellow structure, possibly a crane or a piece of heavy machinery, is visible. The overall scene is industrial and functional.

www.petrorigs.com

www.petrorigs.com



A row of industrial metal frames, possibly for oil rigs, is parked on a dirt lot. The frames are made of heavy metal and have various components like rollers and brackets. One frame on the left has the letters 'AIS' written on it. The background shows a clear sky with some clouds and other industrial structures in the distance.

www.petrorigs.com

A long line of industrial metal frames, possibly for oil rigs, is parked on a paved lot. The frames are made of heavy-duty steel and are arranged in a row, extending into the distance. The sky is blue with scattered white clouds. In the background, there are some industrial buildings and a tall antenna tower. The ground is a light-colored concrete or asphalt. The overall scene is an industrial yard or storage area.

www.petrorigs.com



www.petrorigs.com

A long line of white metal drilling rigs is parked on a dirt lot. The rigs are made of heavy-duty steel and have various components like rollers and pulleys. The sky is blue with scattered white clouds. In the background, there are some white storage containers. The ground is dry and dusty. A wooden pallet is visible in the foreground on the right.

www.petrorigs.com



www.petrorigs.com

A yellow hydraulic jack is positioned on a concrete floor, supporting a large, rusted metal structure. The jack is connected to a hydraulic line that runs through a metal frame. In the background, there are more metal structures and a black cable with the text "HBR2.8 TERA-GLIDE" visible. The scene appears to be an industrial or construction site.

www.petrorigs.com



www.petrorigs.com

A close-up photograph of a yellow industrial roller or mill component. The component is mounted on a concrete base and features several horizontal rollers. It is situated within a concrete structure, possibly a part of a larger machine or a wellhead. The image is watermarked with the website address 'www.petrorigs.com' in white text across the center.

www.petrorigs.com

A long line of heavy-duty metal rail carts, likely used for transporting equipment or materials in an industrial setting, is shown on a gravel track. The carts are constructed from thick, weathered metal beams and have a complex, multi-beamed frame. They are arranged in a single file, receding into the distance. The ground is composed of light-colored gravel. In the background, there are various industrial structures, including a large green cylindrical tank and a blue structure with a platform. The sky is blue with scattered white clouds. A watermark is overlaid on the center of the image.

www.petrorigs.com



www.petrorigs.com

DSR DSF ODSF ODSR
LIFT TRAVEL LIFT LIFT TRAVEL LIFT LIFT TRAVEL LIFT LIFT TRAVEL LIFT
A A B B A A B B A A B B A A B B

www.petrorigs.com



A photograph showing a yellow hydraulic jack supporting a heavy metal beam. The jack is positioned on a concrete floor, and the beam is resting on its top surface. The surrounding area is industrial, with various metal structures and equipment visible in the background. The floor is covered with a layer of dust or sand. The lighting is bright, casting shadows on the floor.

www.petrorigs.com

www.petrorigs.com



www.petrorigs.com



www.petrorigs.com



www.petrorigs.com





www.petrorigs.com

www.petrorigs.com

R-15

R-15

R-15





www.petrorigs.com

R-15

www.petrorigs.com





www.petrorigs.com



www.petrorigs.com

R-15

R-15



www.petrorigs.com

DANGER
CONFINED
SPACE

www.petrorigs.com

R-15



www.petrorigs.com

DANGER
RESTRICTED
ACCESS

www.petrorigs.com





www.petrorigs.com



www.petrorigs.com

B-15

D-15

www.petrorigs.com





www.petrorigs.com



www.petrorigs.com

A close-up photograph of a large industrial machine, likely a rubber roller or mill. The central feature is a large, horizontal roller with a prominent corrugated or ribbed surface, showing signs of wear and discoloration. This roller is mounted on a heavy, grey metal frame. To the right, a circular metal plate with several bolt holes is visible, possibly a cover or a part of the drive mechanism. The machine is situated in an outdoor or semi-outdoor environment, with a concrete or metal structure visible in the foreground. The overall appearance is that of a well-used, heavy-duty piece of equipment.

www.petrorigs.com



www.petrorigs.com



www.petrorigs.com

105705



www.petrorigs.com



www.petrorigs.com



www.petrorigs.com



www.petrorigs.com





www.petrorigs.com



www.petrorigs.com

www.petrorigs.com





www.petrorigs.com

A large, green, industrial generator or power unit is the central focus of the image. It is mounted on a metal frame and sits on a concrete pad. To the left, a large coil of thick, grey cables is secured to the unit. A red fire extinguisher is visible on the ground near the base of the unit. In the background, there is a blue building with a red crane arm extending from it. The sky is blue with scattered white clouds. The ground is a mix of dirt and concrete. The overall scene is an outdoor industrial or construction site.

www.petrorigs.com



www.petrorigs.com

A photograph of industrial machinery, possibly a pump or compressor, housed within a green metal container. The machinery is mounted on a metal frame and features a large, spherical, weathered component at the top. Various pipes, valves, and gauges are visible. The container's door is open on the left. The scene is set outdoors on a dirt lot under a blue sky with light clouds. In the background, there are other industrial structures, a grey trash bin, and a large metal drum. A watermark is overlaid on the center of the image.

www.petrorigs.com



www.petrorigs.com

The image shows a complex industrial setup on an offshore oil rig deck. In the foreground, there is a large, horizontal piece of machinery, possibly a separator or filter, with several circular ports and a network of pipes. To its right, there are two large, spherical vessels, likely gas separators, mounted on a structure. The deck is made of metal grating, and various hoses and tools are scattered around. The background shows the side of a large container or structure and a clear sky. A watermark is overlaid on the center of the image.

www.petrorigs.com

www.petrorigs.com



www.petrorigs.com





www.petrorigs.com



www.petrorigs.com

www.petrorigs.com




www.petrorigs.com





RS-F1600 - WAD PUMP

DATE OF MANUFACTURE 2015-03 SERIAL NUMBER RS15-001  API 7K-0095

RONGSHENG MACHINERY MANUFACTURE LTD OF HUABEI OIL FIELD
RENQIU CITY, HEBEI PROVINCE, CHINA

www.petrorigs.com

PERFORMANCE AT MAXIMUM 1000HP INPUT & 120SPM

| | 7 1/4 | 7 | 6 3/4 | 6 1/2 | 6 1/4 | 6 | 5 1/2 | 5 |
|------------------|-------|------|-------|-------|-------|------|-------|------|
| PISTON SIZE (IN) | 7 1/4 | 7 | 6 3/4 | 6 1/2 | 6 1/4 | 6 | 5 1/2 | 5 |
| VOLUME (GPM) | 772 | 720 | 669 | 620 | 574 | 529 | 444 | 387 |
| PRESSURE (PSI) | 3139 | 3424 | 3688 | 3982 | 4291 | 4658 | 5070 | 5070 |

GEAR RATIO 4.208:1 STROKE LENGTH 12 VALVE SIZE API#7

CRANKCASE OIL CAPACITY 100GAL PUMPS DIMENSIONS 15.4 x 9.2 x 9.18ft

EIGHT COMPLETE, LESS SHEAVE 57762 lb



www.petrorigs.com

www.petrorigs.com





www.petrorigs.com



www.petrorigs.com

CAUTION
THIS EQUIPMENT MAY
START UP WITHOUT NOTICE
AT ANY TIME

CAUTION
LOCKOUT TAGOUT
BEFORE
WORKING ON
EQUIPMENT

CATERPILLAR

STARTING AID

CATERPILLAR



www.petrorigs.com

OFF / RESET

COOL DOWN STOP

AUTO START



www.petrorigs.com



www.petrorigs.com



CATERPILLAR

CATERPILLAR

Check
oil B4
starting
Need

www.petrorigs.com



CAT#3508



SYNCHRONOUS AC GENERATOR
ROCKWELL AUTOMATION

| | | | | | |
|-----------------------------------|-------------|------|------|----|----------|
| APPROXIMATE PARTS LIST | | | | | |
| AW CONT | AW STANDBY | PH. | WIRE | WZ | EXC. DYN |
| KVA CONT | KVA STANDBY | P.F. | FRM | | |
| VOLTAGE | | | | | |
| AMPERES | | | | | |
| TEMPERATURE RISE AMBIENT INS. CO. | | | | | |

www.petrorigs.com

ROCKWELL AUTOMATION
KATO ENGINEERING

OPPOSITE DRIVE (EXCITER END)
DRIVE END

| | |
|------------------------|--|
| APPROXIMATE PARTS LIST | |
| APPROXIMATE PARTS LIST | |
| APPROXIMATE PARTS LIST | |
| APPROXIMATE PARTS LIST | |
| APPROXIMATE PARTS LIST | |
| APPROXIMATE PARTS LIST | |

Rockwell Automation
Kato Engineering

Rockwell Automation
Kato Engineering



www.petrorigs.com

CAUTION
HEARING PROTECTION
REQUIRED
IN THIS AREA

NOI
AUTHOR
PERSON
ONLY

www.petrorigs.com



www.petrorigs.com



www.petrorigs.com





www.petrorigs.com

www.petrorigs.com



www.petrorigs.com



www.petrorigs.com



www.petrorigs.com

SYNCHRONOUS AC GENERATOR

| | | | |
|---------------|------|--------------|--------|
| SERIAL NUMBER | CODE | MODEL NUMBER | WEIGHT |
| 817-02 | | AA2164000 | |

IMPORTANT: WHEN ORDERING PARTS INCLUDE SERIAL NUMBER AND MODEL NUMBER

| ALTERNATOR | | | | EXCITER | |
|------------|-------|------|-------|-------------|-------|
| KW | PHASE | WIRE | HERTZ | FIELD AMPS | VOLTS |
| 150 | 3 | 4 | 60 | 7.9 | 100 |
| KVA | PF | RPM | | FIELD VOLTS | HERTZ |
| 174 | 0.8 | 1200 | | | |

| | | | |
|------------|---------|----------|------------|
| TEMP. RISE | WINDING | WINDING | SEQUENCE |
| °C | °C | WINDING | T1, T2, T3 |
| ENCLOSURE | YEAR | ROTATION | |
| | 2006 | CWFDE | |

Kato Engineering

CAUTION

DO NOT TOUCH THE ROTOR OR FIELD WINDINGS WHEN THE GENERATOR IS RUNNING OR BEING OVERHAULED. THESE PARTS ARE VERY HOT AND CAN CAUSE SEVERE BURNS.

DO NOT TOUCH THE ROTOR OR FIELD WINDINGS WHEN THE GENERATOR IS RUNNING OR BEING OVERHAULED. THESE PARTS ARE VERY HOT AND CAN CAUSE SEVERE BURNS.

DO NOT TOUCH THE ROTOR OR FIELD WINDINGS WHEN THE GENERATOR IS RUNNING OR BEING OVERHAULED. THESE PARTS ARE VERY HOT AND CAN CAUSE SEVERE BURNS.

DRIVE END

MADE IN U.S.A. Kato Engineering

BEARING LUBRICATION

APPLY GREASE IN BEARING USING
APPROXIMATELY THE AMOUNTS OF GREASE LISTED
BELOW IN AT INTERVALS SHOWN IN RUNNING TIME
OR IN MONTHS, WHICHEVER OCCURS FIRST.
REPLENISH AND Wipe EXCESS GREASE FROM INTERNAL
PARTS OF BEARING.

USE A HIGH QUALITY NLGI GRADE 2 ELECTRIC
MOTOR GREASE WHICH WILL LUBRICATE
SUFFICIENTLY OVER A RANGE FROM LOWEST
OPERATING TEMPERATURE EXPECTED TO +250.

BEARING NUMBER

| | |
|--|----------|
| 10884150 | 40684150 |
| REPLENISH INTERVAL IN RUNNING TIME HOURS | |
| 8760 | 8760 |
| REPLENISH INTERVAL IN MONTHS | |
| | |
| REPLENISH AMOUNT IN OUNCES | |
| 6.0 | 6.0 |

113-0007E-06

www.petrorigs.com

KATO ENGINEERING

DANGER



www.petrorigs.com

www.petrorigs.com

DANGER
NO
SMOKING

CAUTION
HEARING
PROTECTION
REQUIRED IN THIS AREA

CAUTION
COMPRESSED
AIR



www.petrorigs.com





www.petrorigs.com



www.petrorigs.com

www.petrorigs.com





www.petrorigs.com

www.petrorigs.com





www.petrorigs.com

www.petrorigs.com





www.petrorigs.com

BRW

MPS

Water Pump

Water Pump

TD

Charge Pump

Abel box

15

16

17

18

20

21

25



www.petrorigs.com

08CC
DOG HOUSE 70/3
HEATER #2
POWER
PI#800

3RD PARTY
CONNECTION

3

www.petrorigs.com

3





www.petrorigs.com

SENDERO
RIG-24



www.petrorigs.com

WARNING
HIGH VOLTAGE

Automatic KVAR Adjuster
Control System Associates Inc.
Broussard, Louisiana
800-587-2041

OFF ON SYSTEM ALARM

POWER ON PUSH TO RESET READY

www.petrorigs.com



www.petrorigs.com



www.petrorigs.com



DANGER
HIGH
VOLTAGE

www.petrorigs.com

DANGER
HIGH
VOLTAGE

AIR CONDITIONER

DANGER
HIGH
VOLTAGE

AIR CONDITIONER #2

www.petrorigs.com

DANGER
HIGH
VOLTAGE

AIR CONDITIONER #14



www.petronigs.com

DANGER

ELECTRICITY FROM
THIS UNIT IS
LIVE

**SAFETY
FIRST**

HARD HAT SAFETY
SHOES AND SAFETY
GLASSES MUST BE
WORN AT ALL TIMES



Evolution Series E9000



DANGER
HIGH VOLTAGE



www.petrorigs.com

Wireline





www.petrorigs.com



www.petrorigs.com

DANGER
HIGH VOLTAGE

DANGER
HIGH VOLTAGE

DANGER
HIGH VOLTAGE

Fuel 1

Fuel Pump 2

Premix

TRASH PUMP 2

Handwritten notes and labels on the right side of the panel.

MID FUEL
LAMP



www.petrorigs.com



www.petrorigs.com

www.petrorigs.com





www.petrorigs.com

www.petrorigs.com





www.petrorigs.com



www.petrorigs.com

A long, narrow row of green metal storage containers or trailers is parked on a dirt surface under a blue sky with scattered clouds. The containers are arranged in two parallel lines, creating a central aisle. The containers have various features, including doors with latches, hinges, and some with small windows or vents. One container on the right has a red number '15' painted on its side. A large coil of grey cables or hoses is visible on the side of one of the containers in the middle of the row. The ground is dry and dusty, with some sparse vegetation. The overall scene suggests an industrial or construction site.

www.petrorigs.com

www.petrorigs.com

SEMI



www.petrorigs.com



www.petrorigs.com

B-15



www.petrorigs.com



www.petrorigs.com





www.petrorigs.com



www.petrorigs.com

www.petrorigs.com





www.petrorigs.com

www.petrorigs.com



www.petrorigs.com



www.petrorigs.com



www.petrorigs.com



www.petrorigs.com





www.petrorigs.com

www.petrorigs.com



A row of green and grey metal cabinets, likely for electronic equipment, is mounted on a concrete base on a ship's deck. The cabinets are arranged in a line, with a green cabinet in the foreground and a grey cabinet to the right. The background shows a blue sky with light clouds and some ship structures. A watermark is overlaid on the image.

www.petrorigs.com

www.petrorigs.com



www.petrorigs.com



www.petrorigs.com





www.petrorigs.com

www.petrorigs.com

LOAD



Sendero Safety Paperwork Checklist

Weekly

- IADC Topic & Report
- Derrick Inspection
- Personal H2S Sign Out
- Hazard Hunt

Per Well

- Rig Inspection
- Pre Raise Inspection
- Location Inspection
- Raise Line Inspection
- SCBA Inspection
- Flow-Gas Monitor Insp.
- Pre Spud Inspection

Monthly

- Fall Protection Insp.
- SDC Rig Inspection
- Wire Rope Inspection
- Fire Ext. Inspection

www.petrorigs.com

SAFETY FIRST
M.S.D.S.'s
LOCATED HERE-
USE THEM!

SAFETY FIRST
HARD HATS, SAFETY
SHOES AND SAFETY
GLASSES REQUIRED
IN ALL WORK
AREAS ON THIS RIG

EXIT

RADNOR
FIRST AID KIT



www.petrorigs.com

DO NOT
LOAD FROM
THIS END

ATCC

140



www.petrorigs.com

www.petrorigs.com



www.petrorigs.com



www.petrorigs.com



www.petrorigs.com



www.petrorigs.com



www.petrorigs.com



www.petrorigs.com



www.petrorigs.com



www.petrorigs.com



www.petrorigs.com



www.petrorigs.com





www.petrorigs.com



www.petrorigs.com

An industrial yard or storage area under a cloudy sky. In the foreground, a large, rusted metal beam with the red marking "B-15" is resting on a wooden pallet. To the left, there are blue metal drums. In the background, there are various pieces of industrial equipment, including a green structure on the right and several white containers or trailers. The ground is a mix of dirt and concrete.

www.petrorigs.com



www.petrorigs.com



www.petrorigs.com



www.petrorigs.com

A photograph of an industrial yard or construction site. In the foreground, a flatbed trailer is loaded with various pieces of equipment. A yellow generator or power unit is the central focus, with a black fuel tank and various hoses and cables attached. To the left of the generator, there is a metal frame holding several vertical pipes or rods. Further back on the trailer, there are blue barrels, a large black barrel, and two large white bags. The trailer is parked on a dirt or gravel surface. In the background, there are industrial buildings, a tall crane, and a clear sky with some clouds. The website address 'www.petrorigs.com' is overlaid in white text across the center of the image.

www.petrorigs.com

www.petrorigs.com





www.petrorigs.com



www.petrorigs.com



www.petrorigs.com



www.petrorigs.com

R-15



www.petrorigs.com



www.petrorigs.com



www.petrorigs.com



www.petrorigs.com



www.petrorigs.com



www.petrorigs.com



www.petrorigs.com

A large, green, rusted industrial valve or wellhead component is lying on a gravel surface. The component has a vertical section with a large circular opening at the top and a horizontal section with several smaller openings. The surface is heavily corroded, showing brown rust. In the background, there is a metal structure with several horizontal pipes and a white container. The text "www.petrorigs.com" is overlaid in the center of the image.

www.petrorigs.com

www.petrorigs.com





www.petrorigs.com



www.petrorigs.com



www.petrorigs.com

CITY
WATER

WARNING
DANGER
CONFINED
SPACE
CAUTION
NON-POTABLE
WATER
DO NOT DRINK
CONFINED SPACE -
CALL COMPANY
IMMEDIATELY AT ALL TIMES

www.petrorigs.com



www.petrorigs.com

CITY
WATER

WARNING
CONFINED
SPACE
CAUTION
NON-PURIFIABLE
WATER
REMOVED FROM
SYSTEM

13-15



www.petrorigs.com





www.petrorigs.com



Controlled Fluids, Inc.
Beaumont, Texas
303-723-2635
www.confuids.com

Commissioning Date.

2016

www.petrorigs.com

Job No.

081-242
05-034-1-1

Controlled Fluids, Inc
Project 15-048
Maintenance Tag

Replacement Filters
Pressure Element No: 36014655

Controlled Fluids, Inc

Project 15-048

Maintenance Tag

Replacement Filters

Pressure Element No: 36014655

Return Element No: 36040200

Guardian Element No: 36012713

Breather Element No: 38000006

Recommended Change Interval: Every 2000 Working Hours

Recommended Cleanliness Code: 16/14/11

(Oil must be filtered into unit)

www.petrorigs.com

Fluid Specification
Petroleum Based AW Hydraulic Oil, Mobil DTE 24 or Equal

Recommended Operating Temperature Range: 100F to 125F

Shutdown Occurs at 150F

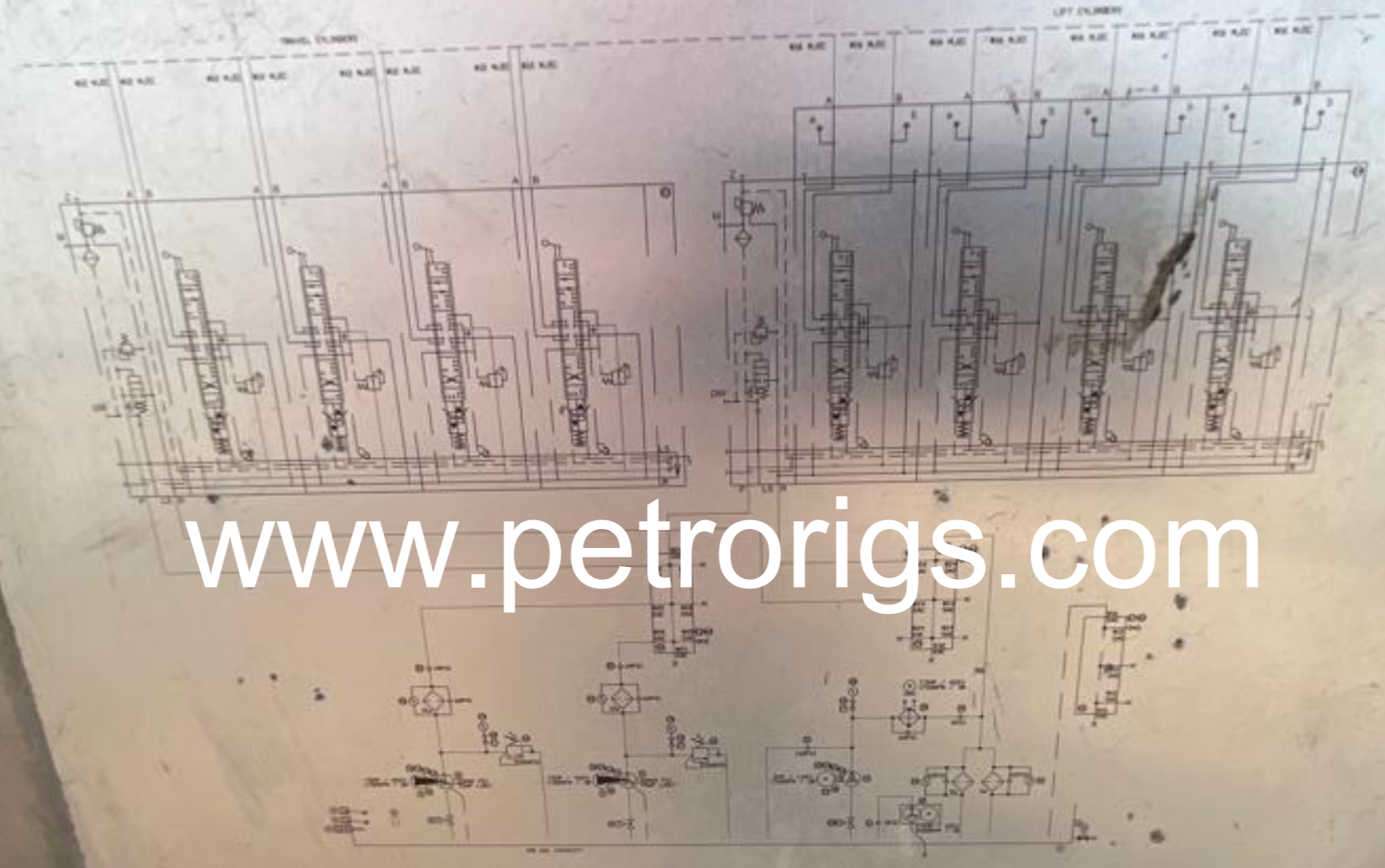
Commission Date 2016

For information or parts contact Controlled Fluids, Inc

800-722-2630

www.confuids.com





www.petrorigs.com



www.petrorigs.com

www.petrorigs.com





www.petrorigs.com

www.petrorigs.com



www.petrorigs.com





www.petrorigs.com



www.petrorigs.com

A yellow industrial motor or generator is mounted on a metal frame. The motor has a circular front panel with some text on it, though it's partially obscured. The frame is made of heavy metal beams and is situated in an industrial setting. The overall scene is somewhat cluttered with various metal parts and structures.

www.petrorigs.com



www.petrorigs.com



www.petrorigs.com



www.petrorigs.com

www.petrorigs.com

DANGER
CONFINED SPACE
FOLLOW COMPANY
POLICY AT ALL TIMES
CAUTION
NO FLAME
NO HOT WORK
DANGER
NO
SMOKING

Water
work
11-15



www.petrorigs.com





www.petrorigs.com

www.petrorigs.com

ADDED
57
has

116-9

The image shows an industrial facility with a long row of green metal cabinets or control panels. On top of the first cabinet, two blue drums are secured with chains. The drums have white labels with the number '1230'. The cabinets have several doors with labels and technical drawings. To the right, there is a complex network of pipes and valves. The ground is dirt, and the sky is blue with some clouds. A large green cylindrical tank is visible on the left side of the frame.

www.petrorigs.com



www.petrorigs.com

A photograph of an industrial valve assembly mounted on a metal platform. The assembly includes several valves with handwheels, a central actuator, and various pipes and fittings. The scene is outdoors, with a white container and other industrial structures in the background. The ground is paved, and shadows are cast across it. A watermark is overlaid on the image.

www.petrorigs.com

www.petrorigs.com



www.petrorigs.com





www.petrorigs.com



www.petrorigs.com

www.petrorigs.com





www.petrorigs.com

www.petrorigs.com

CAUTION
DANGER
CONFINED
SPACE



www.petrorigs.com





www.petrorigs.com



www.petrorigs.com

www.petrorigs.com



www.petrorigs.com



A large, complex industrial valve assembly, likely a wellhead or choke manifold, is the central focus of the image. It is constructed from heavy, weathered metal and features numerous ports, flanges, and a central handle mechanism. The assembly is situated on a sandy or gravelly deck of an oil rig. In the background, the white structural framework of the rig is visible, along with a yellow crane and other industrial equipment. The sky is bright blue with scattered white clouds. A watermark for the website www.petrorigs.com is overlaid in the center of the image.

www.petrorigs.com



www.petrorigs.com



www.petrorigs.com



www.petrorigs.com



www.petrorigs.com



www.petrorigs.com



www.petrorigs.com



www.petrorigs.com

www.petrorigs.com





NO FORKS

www.petrorigs.com

R-15



www.petrorigs.com

www.petrorigs.com



www.petrorigs.com





www.petrorigs.com

A red industrial forklift is the central focus, parked on a sandy or gravelly surface. The forklift has a tall mast and a seat. In the background, there is a large white metal structure, possibly a crane or part of a rig, and a yellow platform. To the right, there is a green container. The sky is blue with scattered white clouds. The overall scene is an outdoor industrial yard.

www.petrorigs.com



www.petrorigs.com



www.petrorigs.com

www.petronigs.com

SENDERO

15

SHAGDON



www.petrorigs.com

SENDERO
15

SHAWCON





www.petrorigs.com