

# HENDERSON

EXPERIENCE THE DIFFERENCE

## RIG INVENTORY



HRI 1000 Electric 250 Ton  
Stacked in 2015  
Located in Houston, TX



Equipment Description	Serial #	Details
Mast Carrier (Pioneer Rig 60)	060001	4G Cat IV inspection 12-22-2011
Mast Model TM8-425-118	TM-425-118-806	
Carrier Trailer Extension	LP# 013C-795	
Mast Stands (2)	N/A	
Sub Structure	425-17HVS-822	
Floor Tugger 1	0572218	
Floor Tugger 2	0572220	
Mousehole pipes		
Rig Stairs/ Platforms		Qty (3) Stairs 10/31, Qty (4)Stairs (1) Platform 11/1, (1)Stair 11/5
Deadline Anchor Model 129-T Hercules	364	Last Inspection 2-14-2014
DW- 1000-E Single Drum wichita brake	06-910941-00-0001	
DW- Traction Motor 1 GE- 752	200153	
DW- Traction Motor 2 GE- 752	48757-5188	
DW- Brake Wichita 7-326-300-108-0001	06-910941-00-0001	
Engine 1 Cat 3512B	4AW01455	
Cat 1225 KW Generator 1 SR4B	9R200453	
Radiator		
Cold Start	20060126-0107	
Compressor		
Engine 2 Cat 3512B	LLA03528	
Cat 1225 KW Generator 2 SR4B	9RZ01518	
Radiator	UL006778DR2498	
Cold Start		
Compressor		
Engine 3	9245772	
Generator SR4	47BH3310	
Spare Gen Skid		
IEC SCR House	7405	
SCR A/C Units		
Service Loop		
Mud Pump 1- RS-F1600	RS7007	Inspected 11/19/2014
Mud pump 1 Traction Motor 1 GE-752		
Mud pump 1 Traction Motor 2 GE-752		
Charge Pumps		
Pulsation dampener		
Mud Pump 2- RS-F1600	RS07011	Inspected 11/19/2014
Mud pump 2 Traction Motor 1 GE-752		
Mud pump 2 Traction Motor 2 GE-752		
Charge Pumps	60804170238	
Pulsation dampener		
Top Drive TDS-10SA	TDS105K16T98	
Top Drive VFD (Siemens/ ACS)	003	
Top Drive Track		
Top Drive Tie backs		
Rotary Table AB 27-1/2"		
Rotary Table TM GE-752		
Master Bushing		
Block / Hook 250 Ton American Block		

Equipment Description	Serial #	Details
Swivel 200 Ton American Block A-200	5105000	
BOP Annular 11" Townsend Type 84 5k psi	5-15223	
BOP Double 11" Townsend Type 82 5k psi	5-11822	
Choke - 4" x2" 5k psi		
Accumulator - Chiles 5 Station 180 gal	G04-000025	
Accumulator Remote		
Shaker Tank		Some B-fly valve handles are missing, some piping clogged with obstructions
Shakers Double Derrick High G		
Desander- Derrick 2 Cone		
Desilter - Derrick 16 Cone		
Charge Pumps		
Drilco Style Degasser		
Suction Tank		Some B-fly valve handles are missing, some piping clogged with obstructions
Charge Pumps		
ST-80 Iron Roughneck	ST80CH07R209	
Tool Pusher Shack		Rig Manager Trailer
Crew Quarters		
300 BBL Water Tank		
Water Pumps		
200 BBL Fuel Tank		
Fuel Pumps		
Change House		
Mud House		
Hoppers		
Dust Collector		
Boiler House		Inspected 1/26/2015
Wireline Unit - 5 Star Surveyor .092	02-760-000	
Spinner		
Auto Driller		
V- Door		
Cuttings Hauler 1		Kelly hose, Stand pipe manifold, (3) 42" pipe racks, Misc Pipe
Cuttings Hauler 2		(8) sm pipe racks, misc pipe spools, (3) Covers, (1) sm Platform
Mud Boat		w/ Port-a-cool unit
Trip Tank		
Junk Bin		Full of misc, Hoses, Spools, Handrails

Equipment Description	Serial #	Details
Dog House		
MGS skid		
Wind Walls with holder		
Suitcase 1 L x W x H		
Suitcase 2 L x W x H		
Suitcase 3 L x W x H		
Suitcase 4 L x W x H		
Suitcase 5 L x W x H		
Suitcase 6 L x W x H		
Suitcase 7 L x W x H		
Sm Pipe Racks		(2) sm pipe racks 10/31, (6) sm pipe racks 11/5,
Lg Pipe Racks		(3) 42" Pipe racks 11/5,
Cnex Parts House		
(2) Storage Locker / Paint Locker		

# Rig Equipment Visual Inspection

## **Substructure and Mud boat**

Need to hook up hyd. Hoses and raise sub floor to check function and see it hyd. Cylinders are sufficient to raise it level due to ind. Rotary drive and traction motor on one side only, needs cosmetic welding and some half hooks cut off and handrails repaired, change oil in the rotary table and check bowl assy. For wear, straighten some of the diagonal support braces for floor extensions, M.P.I. all handling tools associated with rotary table, fit up V-Door and catwalks, catwalks need round bar barriers on sides replaced and or repaired, some B.O.P. control 1" pipe and hoses need replacing, needs CAT IV inspection on the structural iron, pins, and welds.

## **Mast visual inspection**

Crown sheaves grooving gauged and bearings / seals and grease lines and fittings checked, same for travelling blocks, sheaves and pulleys for hoist lines and tong pull and replace all associated wire ropes and rigging hardware, some fingers straightened and handrails on monkey board, mast ladder straightened and some rungs changed out, needs to be stood up and scoped out to check tracks and dawgs, all guy wires and monkey board support wire ropes need to be replaced, needs CAT IV inspection on the structural iron, pins, and welds.

## **Draw Works visual inspection**

Front and rear axles need repairs, chains and sprockets need to open chain cases and check conditions, controls need to be hooked up and checked for leaks and function, drilling line should be replaced, H.P.U. needs oil changes and functioned, some handrails and platforms will need repaired, gearboxes should get oil changed and tolerances checked for wear, crown-o-matic circuit needs checked out, both hydraulic winches need oil changed and controls need some items replaced, traction motors and input drive assembly needs to be inspected and ran ,D.O.T. inspection of lights, brake system, tires and air pressures checked, and licenses plates where applicable.

## **Top drive and guide track**

Needs new Kelly hose And hyd. Hoses replaced, hook up and run to check functions and control panel, needs new wash pipe and packing, check electrical connections and j-boxes for leaks or damage, rig move carrier has a bent support leg on one side needs to be straightened or beam replaced, do a dropped objects survey and correct anything unsafe, check torque and drill modes for acceptable values, check for over-drill clearances on floor and to iron roughneck, check mousehole for proper makeup alignment to top-drive, check track to well center distance and tie backs in mast and travel guide roller bearings, check link tilt and elevator links for clearances, and I-B.O.P. actuator.

## **Iron roughneck**

Visual Inspection shows we need to check dimensions and reach, alignment to rotary table and mousehole, check wear on roller assy. And hoses, hook up and function check and torque, grease. All moving parts, M.P.I. socket and welds in floor mount. Overall looks to be in working order.

## **Suitcases and wire trays**

Repair hinges and lids or replace them, replace broken valves, unions, and inspect piping, check that grating or expanded metal in bottom of cable trays are flat not serrated, round sharp edges and corners or weld round bar on areas that could damage wire coatings. {or replace with overhead swing arms}

## **Mud Pumps:**

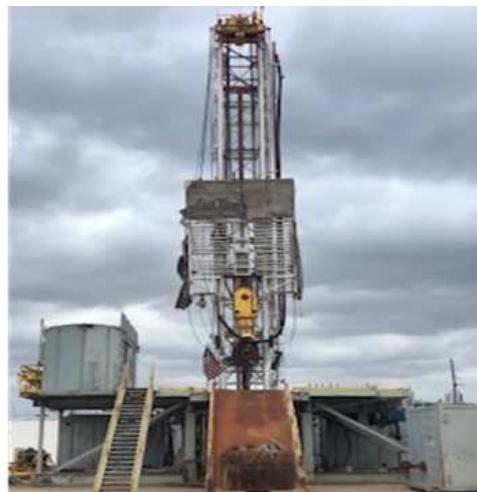
Pull covers and inspection ports to see if there is water or moisture damage, check bearing tolerances and make of bearings {no China}, replace gaskets, change oil and filters, check for internal oiler pumps and pop-off settings, replace any broken or unreadable pressure gauges, repack gate valves and grease them, check drive pulleys and belt tension for flexibility, weathering, cracks, etc., install all necessary fluid end expendable parts, replace broken valves on liner washers and replace liner washer hoses, run pumps and pressure up to check for leaks, replace rubber gaskets in all hammer unions and tank unions related, check pulsation dampeners for proper nitrogen charges and for leaks, bladders should be U.S.A. made, repair any guards if damaged or not sufficiently covering equipment close enough to keep hands out, check electric and traction motors, start / stops, and related wiring, replace vibrator jumper hoses, bleed hoses, etc., check pop-offs for correct settings and piping back to tanks.

## **Mud Tanks, Trip Tanks, Water Tanks, and Fuel Tank:**

Fill with fluid to check interconnections for leaks, tank walls and bottoms, function check plumbing and change any valves that don't hold or leak, assure all valve alignments are marked open / close, measure and record all tank volumes per inch or barrels which ever is applicable, usable volumes in mud pits omitting sand traps, Check all mud centrifugal pumps for lubrication and packing not leaking, check for correct impeller sizes, expansion joints rubber to be nitrile if using oil based muds, replace hoses where necessary, check lighting for classification per areas per O.S.H.A. regulations, wiring for cuts or brittle, plugs for correct installation and sizing, change oil in all agitator gear boxes and check for leaking seals, check for gearbox vents, check shafts and blades for condition and tightness of mounting hubs, check rotation, run and listen for any knocking or sounds that may indicate excessive wear or damage, function all mud mixers, hoppers, mud cleaners, degassers, shale shakers for function and leaks, check vibration of shaker motors and direction they rotate, check counterweight adjustments where applicable, check screen tensioners and shaker bed seal areas for wear and corrosion, install new rubbers on shaker bed, check shaker and or cement bypass routing and valves, repair any handrails and walkways grating, combing, etc., check flow schematic and valve alignment charts, pipe degasser exhaust tube above the roofs if applicable, assure roof legs scope up and down in sockets if applicable, inspect all pins and keepers for correct fits, sink drains to drain out of pits and no leaks into tank compartments, check for compartment equalizers and function them, check all stairways for correct rise / run dimensions and step condition, all steps to pin or bolt on, check that all safety signs are displayed accurately, eyewash stations, mud weigh stations / sinks, P.P.E. boxes with aprons, gloves, face shields, in place for mixing caustic and chemicals to treat the mud for correct properties, check flow line size, angle, attachment methods, ports for flow rate paddles, 2" jets for flushing gumbo or cement out.

## Rig Overview

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**WE LOOK FORWARD TO SPEAKING  
WITH YOU.**

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