

COMPLETIONS AND WORKOVER RIG RIG DISCOVERY 3 SPECIFICATIONS BROCHURE







HIGHLIGHTS

Name:	Discovery 3
Brand	Loadcraft
Power:	550 HP
Year:	2010
Double Drum:	Drawworks and Sandline Drums
Туре:	Self-propelled Land Rig
Static Hook Load:	250.000 Libras
Drilling depth:	15.000 FT TUBING 3-1/2" 9,3#



CARRIER

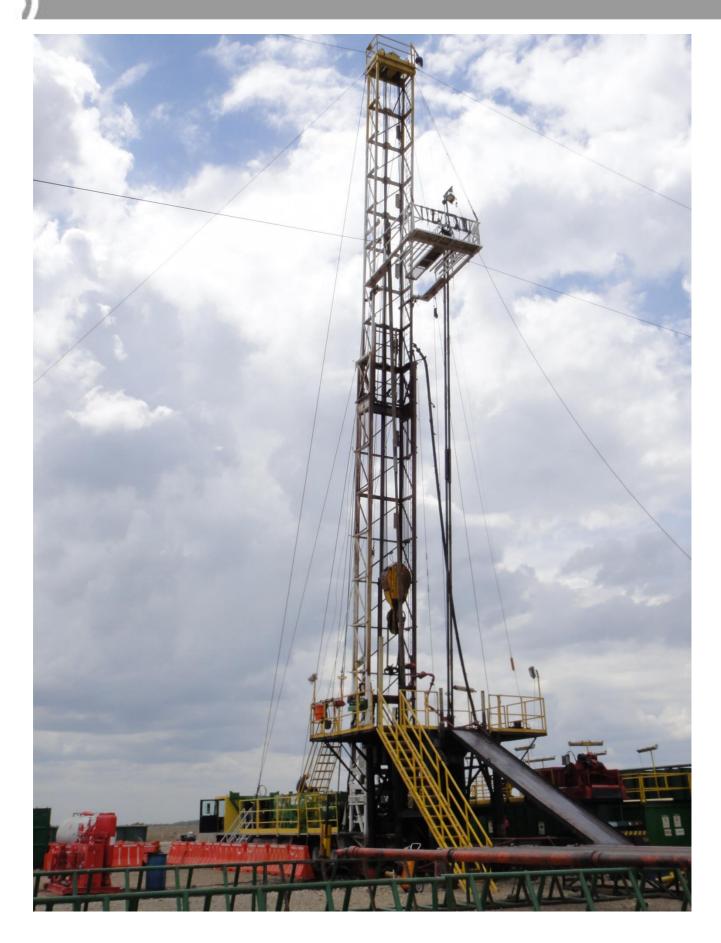
CARRIER

)

Specifications	Data
Manufacturer	Loadcraft
Model	LCI 550C
Brakes	Air brakes in all wheels
Steering	Hydraulic powered
Front axles	2
Rear axles	3
Headlights	Stop and taillights
Reflectors	Air horn
Cab	One man, washer and wiper
Mirrors	Two rear view mirrors



Rig Discovery-3 In Operations – Casanare

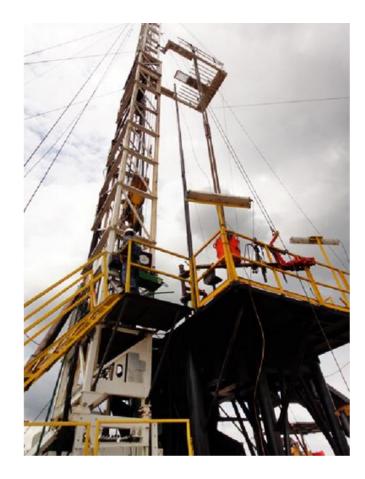


MAST AND SUBSTRUCTURE

MAST

Specifications	Data
Manufacturer	Loadcraft
Model	104/250
Туре	Telescoping double
Clear Height	104ft
Static Hook Load	250.000 Lbs
Drilling line size	1"





MAST SUBSTRUCTURE

Specifications	Data
Manufacturer	Prodimetales
Year	2011
Туре	Telescoping (Low boy)
Height	14ft
Capacity	250.000 Lbs
Clearence	12ft
Weight	12.000 Kg
Rotary Table:	Sentry 17-1/2" and 250 Ton

DRAWWORKS

Specifications	Data
Manufacturer	Loadcraft
Year	2010
Model	550/42-12, 42X12
Size	42 X 12"
Single line pull	42.500 Lbs
Shaft Diameter	6-1/2"
Horse power rating	550 HP
Drum Capacity	3260 ft, 1" Wire rope



AUXILIARY BRAKE

Specifications	Data
Manufacturer	Parmac
Reference	202

SANDLINE DRUM

Specifications	Data
Manufacturer	Loadcraft
Model	42X8
Size	42 X 8"
Drum Capacity	14.400 ft of 9/16 Sandline

TRANSMISSION

Specifications	Data
Manufacturer	Caterpillar
Model	CAT TH35-E81
Туре	Automatic
Power shift	From cab and rear control



ENGINE

Specifications	Data
Manufacturer	Caterpillar
Model	CAT C15
Rating	540 HP @ 2100 rpm
Exhaust	With spark arrestor
Air compressor	Driven from engine
	High water temp, low oil
Emergency stop	pressure and overspeed
	emergency shutdown



HYDRAULIC SYSTEM

Specifications	Data
	50 GPM (PTO Driven by
Hydraulic pump	transmission)
Oil Tank	195 Gal
Max. Pressure	2500 PSI @ 2100 rpm
System rating	
pressure	3000 PSI
Raising Cylinder	Three stages (hydraulic)
Jackscrews	4 hydraulic leveling jacks

HANDLING WINCH

Specifications	Data
Туре	Hydraulic powered
Capacity	8.000 Lbs
Rated line pull	100 fpm and 2.000 PSI
Line	325 ft of 1/2"
Fail-safe brake	Included

TRAVELING BLOCK

Specifications	Data
Manufacturer	McKissick
Туре	Hook block
Reference	84A
Load capacity	150 TON
Sheaves	4 sheaves of 1"
Fail-safe brake	Included
Link elevators	150 TON, 6 ft





ROTARY SYSTEM

ROTARY TABLE

Specifications	Data
Manufacturer	Sentry
Load capacity	250 Ton
Reference	SI-RT-175 X 44
Load capacity	150 TON
Size	17-1/2"
Max. Working	
torque	10.132 ft.Lbs
Max speed	300 rpm



KELLY SYSTEM

Specifications	Data
Kelly type	Square 3-1/2" X 40ft
Bottom conexión	3-1/2 IF pin
Top conexión	6-5/8 Reg LH box
Kelly drive bushing	Square drive 17-1/2"
Kelly master	
Bushing	Included
Load capacity	150 TON
Size	17-1/2"
Max. Working	
torque	10.132 ft.Lbs
Max speed	300 rpm

ROTARY SYSTEM

SWIVEL

Specifications	Data
Manufacturer	Western Rubber
Bottom conexion	6-5/8 Reg LH pin
Reference	15 NV
Capacity	150 Ton
Rotating load capacity	90 Ton @ 100 rpm
Working pressure	4.500 PSI
Main bearing	Full apex roller
Fluid passage	3"
Rotary hose	3" X 5000 PSI (35ft)





CIRCULATING SYSTEM

MUD PUMP

Specifications	Data
Manufacturer	Gardner Denver
Reference	PAH08
Liners	4-1/2
Stroke lenght	8"
Engine	Detroit 8V 71
Horse power rating	400 HP
Transmission	Automatic Allison 750







CIRCULATING SYSTEM

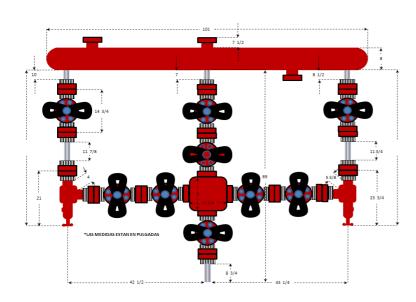
MUD TANKS

Specifications	Data
Qty	2
Capacity	250 BBL (TOTAL: 500 BBL)
Agitators	2 (for each tank)
Cetrifuge	4X6 (Electric engine of 40HP)
Туре	Fast move
Fixed poor boy	Included
Electric instalation	Explosion proof (6 lamps)
Mud mixing Hopper	Included



ANULAR BOP

Specifications	Data
Manufacturer	Hydril
Size	11 X 5M and 11»X5M
Top conexión	Studded
Bottom conexión	Flanged
Max. Working	
pressure	5000 PSI





*all well control equipment is as per API RP 53



RAM BOP

Specifications	Data
Manufacturer	Hydril
Size	11 X 5M and 11»X5M
Top conexión	Studded
Bottom conexión	Flanged
Max. Working	
pressure	5000 PSI
Rams	Blind Rams and Pipe rams
Pipe rams	3-1/2 and 2-7/8

CHOKE MANIFOLD

Specifications	Data
Reference	2-1/16 X 5M
	9 gate flanged valve 2-1/16 X
Valves	5M
Conexiones	2" Fig. 1502
Chokes	2 graduable chokes

ACCUMULATOR UNIT

Specifications	Data
Bottles	6 for 10 Gal
Working pressure	3000 PSI
Pre-charge	
pressure	1000 PSI
Hydraulic pump	Triplex
Pneumatic pump	Included
Four way rotary	
valve	3
Pressure regulator	2
Electric system	Explosion proof



POOR BOY

Specifications	Data
Size	24"
Туре	Fixed at mud tank
Liquid outlet	6"
Gas outlet	3"



POWER SYSTEM

GENERATORS

Specifications	Data
Manufacturer	General power
Qty	2
Capacity	131 KVA
Cabin	Isolated cabin
Model	GP131S
Conexions	Explosion proof (Appleton)





TOOLS

MANUAL TOOLS

Specifications	Data
Pipe wrenches	2 of each size (24, 36, 48 y 60)
Chain wrenches	24 and 36"

HYDRAULIC TONG

Specifications	Data			
Manufacturer	Foster			
Tubing sizes	2-3/8, 2-7/8, 3-1/2			
Reference	58-93R			
Туре	Hydraulic powered			



MANUAL TONGS

Specifications	Data				
Manufacturer	BJ				
Туре	C				
	3-1/2 to 5-1/2" and 7 to 8-				
Range	1/2"				
Torque rating	Up to 35.000 Lbs				





ELEVATORS

Specifications	Data
Tubing elvators	90° for 2-3/8, 2-7/8 and 3-1/2
Drill pipe elevator	18° for 3-1/2
Torque rating	Up to 35.000 Lbs
Туре	Latch



SLIPS

Specifications	Data
	Cavins for 100 tons (2-3/8 to
Pneumatic slips	3-1/2)
	Varco - BJ (2-7/8 to 3-1/2)
Rotary slips	150 tons
Drill Collar slips	4-3/4 Drill Collar slips
Safety clamp	4-3/4 Drill Collars





CAMPING

MIN CAMP

)

Specifications	Data			
Units	3			
Beds	2 or 4 for every room			
Bathroom	1 for each room			
Year	2010			
Skidd	Yes			
Refrigerator	For Coman and assistant			
Red fox unit	60 people capacity			
Dining room	included			







WEIGHT INDICATOR

Specifications	Data
Manufacturer	Martin Decker
Туре	Clipper
Lines	8 lines of 1"
Range	0-280.000 Lbs

JOINT TORQUE

Specifications	Data	
Manufacturer	Martin Decker	
Range	0-10.000 ft.Lbs	
Туре	Pressure Cell	

ROTARY TORQUE

Specifications	Data		
Manufacturer	Forum		
Range	0-500		

STROKE COUNTER

Specifications	Data
Model	5700
Totalizer	Included
Mud pumps	2

MISCELLANEOUS

DISCOVERY ENERGY SERVICES S.A.

DISCOVERY

BOTTOM HOLE ASSEMBLY OF SWABBING



RIG: DISCOVERY 3 550HP

WELL HEAD									
1		DEC		PRAND	SEDIAL	0.0	OTV		CUM
		DESCRIPTION		BRAND	SERIAL	OD	QTY	LENGTH	CUM.
	l F	1 Sandline 6X7 Bright	HOLE ASSEMBLY	MADE IN USA	NA	9/16	1	14000	0
	l F		assembly, 3/4 SR Box	GUIBERSON	20511	1-3/4	1	1,17	1,17
	l F	3 Sinker bars 1-1/2 X		AFTER MKT	NA	1-3/4	2	20,00	21,17
			Sub	GUIBERSON	33911	1 1/2	-	20,00	21,17
		4 Knuckle joint 5 tubing swab	Upper mandrel	GUIBERSON	33912	2,36	1	2,17	23,34
		6 mandrels	Lower mandrel	GUIBERSON	33913			ŕ	
2									
		COMMENTS							
		Swab cups		GUIBERSON	53692	2,94	2		
	F								
	F								
	ŀ								
	H								
	F								
3	F								
Fish neck grooves									

MISCELLANEOUS

SWABBING EQUIPMENT

Specifications	Data
Oil saver	Guiberson HD
Swivel rope socket	Guiberson for 9/16
Sinker bars	2 of 10ft
Swab mandresl	Knuckle joint type (2)
Hydraulic pump	Including a hose of 50ft
Dephtometer	Cavins
Lubricator	4"
Swabbing tree	4" with 3 gate valves (4"X5M)

SAFETY EQUIPMENT

Specifications	Data
Fall Protection	Full body harnesses, Body
	belts, Lanyards , SRL'S.
Low speed descender	Included
Climbing assist	Included
system	
Gas detector	Portable
Breathalyzer	Portable





