



KOLTEK - RIG 121

GEFCO SPEEDSTAR 185



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Carrier:

Top Drive drilling unit powered by a CAT L-18 Diesel Engine mounted on a 2007 Kimball Chassis C3100 10x4 - 5 axle back in carrier.

Mast:

Speedstar 61 foot high, 185,000 static hook load, hydraulic raised with dual raising cylinders, rocking board and single joint pipe arm.

Hoist Capabilities:

Hydraulic Cylinders to raise and lower top drive. Hoist capacity of 30,000 lbs. Hoist speed to 140 ft per minute.

Pull down:

Maximum pull down capacity of 30,000 lbs.

Hydraulic leveling jacks:

Four 60" stroke leveling jacks, two at rear on centerline of bore hole and two behind carrier cab, all independently controlled.

Tophead Drive:

11,667 ft. lbs. of drilling torque, rotation speeds of 0-100 rpm. 3" diameter fluid course.

Winches:

Two 8,000 lbs capacity Braden Hydraulic winches substructure. 10' H x 10'6" W x 25' L. T-type substructure with two 5 ft wide folding walkways. 50" H x 10'6" W x 40' L back on ramp.

Iron Roughneck:

2008 Ditch Witch Iron Roughneck

Dog house:

2007 Cherokee 8' W x 40' L Dog house trailer with knowledge box, cabinets, workbench with vise, 12 lockers.

Gen house:

2007 Stanton Dynamics Trailer with a marathon 50 kw generator powered by a John Deere diesel engine and a 95 kw generator powered by a 6-71 Detroit diesel engine.

Mud Pump:

Two MZ-9 Triplex Mud Pumps with Cat 389 diesel engine rated at 1,000 HP each, type D pressure gauges, pulsation dampeners, charging pumps, quick change, caps and flowline manifold. 5.5' Liner – 9' Stroke – 4274 PSI.

Pits:

5' H x 8' W x 36' L - 255-Bbl Mud suction tank with 11" porch extension, 2 compartments, slant bottom, internal plumbing, 5"x6" centrifugal pump powered by 50 HP electric motor, brand MA-10 10 HP mud agitator, chemical hopper, mud hopper, mounted walkways, stairs, safety rails, skidded.

5' H x 8' W x 40' L - 285-Bbl shaker tank with 3 compartments, slant bottom, internal plumbing, mounted walkways, stairs, safety rails, skidded.

Shaker:

503 Derrick Equipment shale shaker mounted on pits, powered by electric motors. With De-sander & De-silter.

BOP:

Regan Torus 9 ½" ID 3000# annular blowout preventer with shafter LWS 9" 3000# double ram blowout preventer, 16" H Drilling spool with (3) 2 1/16" 5000# gate valves, and 2 1/16" check valve, koomy type 80, 3-station closing unit, (4) 10-gal accumulator bottles, triplex charging powered by 10 HP electric motor.

Fuel Tank:

Skidded 5,000 gallon fuel tank with 10' porch. 3 compartment lubester, storage cabinet.



Water tank:

8' H x 10' W x 20' L - 285-Bbl closed top water tank, skidded.

Piston Cylinder Diameter		Displacement – Drilling Service				Maximum PSI		Pump RPM	Jackshaft RPM
		Per Revolution		Maximum Flow Rate		PSI	bar		
Inch	mm	Gal.	m ³	GPM	m ³ /hr				
7	178	4.50	0.0170	585	133	2,639	182	130	582
6.5	165	3.88	0.0147	504	114	3,060	211		
6.25	159	3.59	0.0136	466	106	3,310	228		
6	152	3.30	0.0125	430	98	3,592	248		
5.5	140	2.78	0.0105	361	82	4,274	295		
5	127	2.29	0.0087	298	68	5,000	345		
4.5	114	1.86	0.0070	242	55	5,000	345		
4	102	1.47	0.0056	191	43	5,000	345		

Ratings are based on 90% mechanical efficiency and 100% volumetric efficiency.