

# KS DISCOVERER 1

## GENERAL

RIG NAME : KS DISCOVERER 1  
RIG TYPE : Swing Lift, Cantilever type  
YEAR BUILT/UPGRADED : 2007  
RIG POWER RATING : 1,500 hp  
DRILLING DEPTH : 4,500 m with 5" DP  
RIG MOVE LOADS : 104 truck loads  
CAMP MOVE LOADS : 61 truck loads (including rig camp)

## MAST

MAKE / TYPE : Bomco JJ 315 / 45-K  
CLEAR HEIGHT : 148 ft  
MAST BASE : 29.53 ft x 21.31 ft  
STATIC HOOK LOAD : 700 kips  
RACKING CAPACITY : 4,500 m of 5" DP

## SUBSTRUCTURE

MAKE / TYPE : DZ 3150-9-X / Swing up Substructure  
RIG FLOOR DIMENSIONS : 44.94 ft x 39.7 ft  
HEIGHT : 29.52 ft - drill floor  
: 24.9 ft - rotary beam to ground  
ROTARY LOAD : 350 tons  
SETBACK LOAD : 175 tons

## DRAWWORKS

MAKE / MODEL : Bomco JC-50-D  
RATED INPUT POWER : 1,500 hp  
DRILL LINE DIAMETER : 1-3/8"  
AUXILIARY BRAKE : DWS-50 55,312 ft-lbs

## TOP DRIVE

MAKE / MODEL : NOV TDS 11SA 800 hp  
RATED LOAD CAPACITY : 1,000 kips  
TORQUE : 37,500 ft-lbs

## ROTARY TABLE

MAKE / MODEL : Bomco ZP-375  
RATED LOAD CAPACITY : 650 tons  
TABLE OPENING : 37-1/2"  
DRIVE TYPE : Electric motor 1,080 hp

## CAMP

CAPACITY : 135 pax



## POWER SUPPLY SYSTEM

ENGINES MAKE / MODEL : 4x Cat D-3512 B  
ENGINES POWER : 4x 1,500 hp  
POWER GENERATORS : 4x Cat SR4  
ELECTRICAL POWER : 4x 1,750 kVA  
EMERGENCY POWER : 1x Volvo Penta 600 hp  
RIG POWER VOLTAGE : 600 V 60 Hz  
POWER CONTROL : Siemens 4-Gen, 4-SCR

## MUD SYSTEM

MUD PUMPS MAKE/MODEL : 2x Bomco F-1600  
MAX RATED INPUT : 1,600 hp  
STANDPIPE ASSEMBLY : 2x 4" 5,000 psi WP  
SHALE SHAKERS : 3x Derrick FLC-50  
DESANDER : 2x 300 mm cones  
DESILTER : 12x 100 mm cones  
MUD DEGASSER : Flow 240 m3/hr  
Vacuum pump 2.2 / 3 kW  
MUD GAS SEPARATOR : 30" OD body, 8" OD line

## WELL CONTROL EQUIPMENT

BOP SPHERICAL : 1x Hydril MSP 21-1/4" 2k psi  
: 1x Hydril GK 13-5/8" 5k psi  
BOP RAMS : 1x Shaffer 21-1/4" 2k psi double  
: 1x Shaffer 13-5/8" 10k psi single  
CHOKE MANIFOLD : 3-1/16" 10,000 psi x 8  
KILL MANIFOLD : 4-1/16" 10,000 psi  
ACCUMULATOR UNIT : FKQ-0720-6

## KS DRILLING

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