

# KS DISCOVERER 4

## GENERAL

RIG NAME : KS DISCOVERER 4  
RIG TYPE : Diesel Electric w/ SCR, Sling shot  
YEAR BUILT/UPGRADED : 2008  
RIG POWER RATING : 2,000 hp  
DRILLING DEPTH : 6,000 m with 5" DP  
RIG MOVE LOADS : 110 truck loads  
CAMP MOVE LOADS : 50 truck loads

## MAST

MAKE / TYPE : DSI, Cantilever / Pin type  
CLEAR HEIGHT : 152 ft  
MAST BASE : 25 ft x 23 ft  
STATIC HOOK LOAD : 500 Tons  
RACKING CAPACITY : 242 stands of 5" DP + 10 stands 9" DC

## SUBSTRUCTURE

MAKE / TYPE : DSI, Parallelogram type, self elevating  
RIG FLOOR DIMENSIONS : 30 ft x 34 ft  
HEIGHT : 30 ft - drill floor  
: 25 ft - rotary beam to ground  
ROTARY LOAD : 450 Tons  
SETBACK LOAD : 363 Tons

## DRAWWORKS

MAKE / MODEL : National 1320 UE  
RATED INPUT POWER : 2000 hp  
DRILL LINE DIAMETER : 1-3/8"  
AUXILIARY BRAKE : Elmagco Baylor 7838

## TOP DRIVE

MAKE / MODEL : NOV TDS 115A, 800 hp  
RATED LOAD CAPACITY : 500 st  
TORQUE : 37,500 ft.lbs. maximum continuous

## ROTARY TABLE

MAKE / MODEL : American Block  
RATED LOAD CAPACITY : 540 Tons  
TABLE OPENING : 37-1/2"  
DRIVE TYPE : Independent hydraulic motor

## CAMP

CAPACITY : 130 pax



## POWER SUPPLY SYSTEM

ENGINES MAKE / MODEL : Caterpillar CAT D3512  
ENGINES POWER : 4x 1470 hp  
POWER GENERATORS : KATO  
ELECTRICAL POWER : 4x 1950 kVA  
EMERGENCY POWER : Caterpillar C15, 1x 762 hp  
RIG POWER VOLTAGE : 480 V, 60 Hz  
POWER CONTROL : IEC Systems, I-Drive SCR system  
4-Gen 5-SCR

## MUD SYSTEM

MUD PUMPS MAKE/MODEL : 3x American Block K-1600, 7,500 psi  
MAX RATED INPUT : 1,600 hp each  
STANDPIPE ASSEMBLY : 2x 3-1/2" 7,500 psi rigid section  
: 2x 3-1/2" 7,500 psi flexible section  
SHALE SHAKERS : 3x Derrick FLC-503  
DESANDER : 3x 10" cones  
DESILTER : 16x 4" cones  
MUD DEGASSER : Derrick Vacu-Flo 1200  
MUD GAS SEPARATOR : 36" OD Body

## WELL CONTROL EQUIPMENT

BOP SPHERICAL : 1x Shaffer 21-1/4" 2k psi  
: 1x T3 7072 13-5/8" 10k psi  
BOP RAMS : 1x Shaffer LWS 21-1/4" 2k psi double  
: 1x T3 6012 13-5/8" 15k psi single  
: 1x T3 6012 13-5/8" 15k psi double  
CHOKE MANIFOLD : 3-1/16" 15k psi high pressure section  
KILL MANIFOLD : 3-1/16" 15k psi  
ACCUMULATOR UNIT : CAD Control Systems

## KS DRILLING

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