

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 11SA, 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 or eq.13-5/8" 5k psi
BOP RAMS : 1x Shaffer LWS 21-1/4" 2k psi double
: 1x T3 6012 or eq 13-5/8" 10k psi single
: 1x T3 6012 or eq 13-5/8" 10k psi double
CHOKE MANIFOLD : 3-1/16" 10k psi high pressure section
KILL MANIFOLD : 3-1/16" 10k psi
ACCUMULATOR UNIT : CAD Control Systems

KS DRILLING

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