IDECO 1200HP SCR PAD DRILLING RIG SPECIFICATION OF MAJOR RIG EQUIPMENT

HOISTING EQUIPMENT

DRAWWORKS	
Make and Model	IDECO E-900 – Maximum pull 572,000 lbs
Power	1 No :- GE 752 D.C. (Nom. 1,250 HP max) Drilling Motor
Drum Grooving	Lebus 1 ¹ / ₄ "
Auxiliary Brake	Baylor 5010 Elmagco system c/w 5032 brake
Crown Block Safety Device	MD Totco ;- Total Block Control System
Catheads	Varco HC-26 Hydraulic Cathead System 100,000 ft lbs breakout torque available
MAST	100,000 it los breakout torque avanable
Make	M.I.L. VARCO API 4F – New Build 2003/2004
<u>Dimensions</u>	Clear Height 147ft. Overall Height 58 metres. From Ground level to the highest point on the derrick.
Capacity	Maximum Combined Operating Hookload 770,000 lbs
Racking Capacity	9,350 metres of 5" drillpipe 18 N° : 8" drill collars 24 N° : 6 ¹ / ₂ " drill collars
Crown Block	"Flat running crown" with 6 Nº: 50" sheaves and 1 Nº: 50" fastline sheave
SUBSTRUCTURE	
Make and Type	M.I.L. VARCO API 4F
Simultaneous Capacity	770,000 lbs casing capacity with 806,000 lbs setback capacity
Height to floor	28 ft
Drill Floor Dimensions	55 ft X 45 ft
Skidding System	IHC 4 x 100 T gripper jacks and beam system Skidding is possible with full setback in situ
TRAVELLING BLOCK AND HOOK	okidaling is possible with the servack in sim
Make and Model	IDECO Type UTB-360-5-42 360 ton capacity

Sheaves

 $5~{\rm N^o}:42"$ dia. grooved for $1^{1}\!/_{\!\!4}"$ drill line Unitised to Top Drive

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ROTARY EQUIPMENT ROTARY TABLE Make and Model Oilwell B271/2" None Power Static load capacity 570 tons (Rotating load capacity 355 tons) $27^{1}/_{2}$ " Size opening **ROTARY MASTER BUSHING** Make and Model Varco MSPC c/w casing bowls - #1,#2, N°: 1 - $13^{3}/_{8}$ " - $11^{3}/_{4}$ " N°: 2 - $10^{3}/_{4}$ " - $9^{5}/_{8}$ " N°: 3 - $8^{5}/_{8}$ " down Pin Drive with lifting slings etc. <u>Type</u> c/w bowls N°: 1 - $13^{3}/_{8}$ " - $11^{3}/_{4}$ " N°: 2 - $10^{3}/_{4}$ " - $9^{5}/_{8}$ " Nº: 3 - 85/8" down **TOP DRIVE** Make and Model VARCO IDS-4A;- 500TON TOP DRIVE SYSTEM Drilling Motors GE -20A1 AC motor - 1,150 HP Equipped with helical gears and remote blower to reduce noise emission levels Drilling Speed Range 0 to 228 RPM Continuous Drilling Torque 44,000 ftlbs Continuous Static Lock Brake 38,700 ftlbs 70,100 ftlbs Intermittent Torque PH-75 - 75,000 ftlbs - (4" through 8 1/2" tool joints) Pipe Handler Upper IBOP 6 5/8" API Reg. RH Box Lower IBOP 6 5/8" API Reg. RH Pin /Box Top Drive Head Infinitely Positionable Torque Wrench Floor Mounted Varco ST80 Torque wrench Automated make up and break out unit with integral spinner Rig Floor Winches 2 no. Braden 3T Hydraulic Winches

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MUD PUMPING

MUD PUMPS 1 and 2 (IN SEPERATELY ACOUSTICALLY ENCLOSED HOUSES)

Make and Model

Charging Pump

Power

Discharge Pulsation Dampener

Suction Pulsation Dampener

Discharge Relief Valves

Liner Retention System

Liner Handling System

STANDPIPE

RIG POWER SYSTEM

PRIMARY SYSTEM

FOR A.C. LIGHTING AND AUXILLARY SERVICES

MUD AND WATER SYSTEM

MUD TANKS

No: of Tanks

MUD MIXING

Trip Compartment

SOLIDS CONTROL EQUIPMENT

SHALE SHAKER

WATER STORAGE

CHOKE MANIFOLD

2 Nº: Gardner Denver PZ - 11 Triplex pumps

5" x 6" MCM centrifugal each - electrically powered.

2 Nº: GE/Joliet 752 DC drilling motor each SCR Controlled

Hydril K20 - 5000psi

Hydril SS20 – 275psi

SPM 3" Full Bore Nitrogen Unloading Valve.

P – Quip c/w Hydraulic Quick Release Piston Rods

J. D. Neuhaus pump Davit system Model 2700 – SWL 500KG – 2250mm radius

4" schedule 160, 8000 psi

3 N[∞] Caterpillar 3512B diesel engines c/w SR4 Alternators 1,000 KW, 600V, 60 Hz –

Ross Hill SCR system, enclosed in one house which control All D.C. and A.C. equipment functions and distribution

Total capacity 900 bbls

3 N°: 220 bbls shaker, 240 bbls Settle, 390 bbls Active / reserve. Active tanks c/w 3no. 7.5 or 10HP Agitators Settle tank c/w 3no. 7.5 or 10HP Agitators

 $2~N^\circ:$ Double Life mud hoppers, ~600~GPM capacity and $2~N^\circ:$ 5''~x~6'' Mission centrifugal pumps .

30 bbls - Integral to Substructure for ease of Skidding

3 Nº. Thule VSM 100 Linear Motion Shale Shakers

150 BBL Elmagco tank integral with substructure for skidding

Anson 3" X 5,000 Psi Choke manifold 1 no. Triflow - 3" 5,000 psi Automatic Choke 1 no. Anson -3" 5,000 psi Manual Choke