



Rig 20

Main Features

1. **MAST**
NOV/Dreco Model MC152-30-100 Beam Leg Cantilevered Mast
2. **SUBSTRUCTURE**
Make and Type --- NATIONAL OILWELL VARCO SLINGSHOT
Clear height under Rotary Beam --- 29 ft
3. **CROWN BLOCK**
National Oilwell Varco/Dreco, 500 Tons, 7 x 60" Groove for 1 1/2"
4. **TOP DRIVE SYSTEM**
Make and Type --- VARCO TDS-11SA
Rated Capacity --- 500 tons with 7500 psi Mud Path
5. **TRAVELLING BLOCK AND HOOK**
National Oilwell Varco DG450, 450 Tons, 6 x 60" and 1 x 60" for 1 1/2" line
6. **DRAWWORKS**
National Oilwell Varco 2000UDBE, 2000 HP, Driven by Integral Dual DC Electric Motor
7. **SWIVEL**
National Oilwell Varco LS-NOW SL450-5 with Spinning function
8. **DEAD LINE ANCHOR**
National Oilwell Varco LOF-100-C-8C, 100,000 lbs
9. **WIRES LINE UNIT**
Mathey Surveyor I, One (1) with 27,000 ft wire x 0.092"
10. **MUD PUMPS 1, 2 & n (Triplex)**
Make and Type --- NATIONAL OILWELL VARCO FB-1600
Maximum Input --- 1600 HP
MUD PUMP DRIVE
Type --- Dual Electric Motor Rear Mounted V-Belt Drive
Number --- Three(3)
11. **POWER SYSTEM**
Five (5) Baylor 3512 Land Electric Power
Generator Set
One (1) 3456 Lite Plant 455 eKW 240 Volts 60 Hz, 1800 RPM
12. **RIG COMPRESSORS**
Two (2) Sullair LS16-75H ACAC, 75HP – 346 acfm, Driven by Toshiba 460V/3/60 motor
13. **ROTARY TABLES**
National Oilwell VARCO LS-NOW ZP-375, 1,300,000 lbs, 37 1/2" Opening, 300 rpm max. speed
14. **MUD AND WATER TANKS**
Active Mud Tanks --- 1,500 bbls
Reserve Mud Tanks --- 1,200 bbls
Water Tanks --- 1,200 bbls
15. **RESERVE MUD TANK**
1,200 bbls
16. **SHALE SHAKER**
Three(3) Brandt Dual Cobra Linear Motion
17. **MUD CLEANERS/DESILTER**
One (1) Brandt Cobra 1600 Linear Motion
18. **DESANDER**
Size and No. of Cones --- Three(3) x 12"
Capacity --- 1500 GPM
Driven by --- 100 HP electrical motor
19. **INSTRUMENTATION**
Rig Sense, V2.0
20. **GAS DETECTION SYSTEM**
Type --- Fixed Gas Detection System
Location of Sensors --- Cellar, Shakers and Rig Floor Area
Location of Alarms --- Rig Floor, Shakers, Cellar Area on the Substructure, End of Kooemy Skid
21. **BLOW OUT PREVENTION EQUIPMENT PREVENTERS**
One (1) Shaffer 13 5/8" 5M Double Ram Preventor or equivalent
One (1) Shaffer 13 5/8" 5M Single Ram Preventor
One (1) Hydril 13 5/8" 5M GK Annular Preventor or equivalent
One (1) Hydril 20" MSP 2M Annular Preventor or equivalent.
Complete with all associated Ram Preventor sizes, valves, mud cross and coflex hose to choke manifold.
Skid mounted choke manifold 5M W.P. with manual and fixed chokes and Poor Boy Degasser.
Hydril Accumulator Unit or equal 10 x 15-gallon bottles - 195 gallon Fluid reservoir Capacity driven by 3 Air pumps and 1 electrical pump
Accumulator Unit --- M-series Model MC220-11BTⁿ
--- Twenty (22) 11 Gallon at 3,000 psi Bladder Type Accumulator Units
22. **HANDLING TOOLS**
Rig has all relevant tools for normal tubular sizes.
23. **MAIN CAMP**
Full equipped Camp and Facilities.
24. **AUTOMOTIVE EQUIPMENT**
Qty.(1) 50 Ton crane Qty.(1) Toyota crew car
Qty.(1) 50 Truck Qty.(1) Toyota pick ups
Qty.(1) Forklift 966