



CLASSIFICATION: 1300 H.P. Land Rig rated to 13,500 ft.
Manufacturer: RG – Petro
Date of Manufacture: 2007 (Delivered in 2008)

I- DRAWWORKS

- RG Model JC28B, max speed 450 rpm – API spec 7K
- Rated @ 1300 HP
- Fast line pull 62,107 lbs
- Diameter: 40 inch x 25 inches
- ATD 330H axial thrust disc clutch (New from WPT 2 Qtr. 2013).
- Drawworks fitted with disc brakes – 14,330 lbs positive pressure per rim
- Disc brakes have separate hydraulic system
- Eaton model 324 auxiliary brake – water cool – separate tankage
- 7,500 ft 1-1/4" drill line 6x19 EIPS IWRC RRL
- Crown-O-Matic toggle valve crown saver

II- TRAILER

- Model ES 9750TJZ with Mast Crown and Standpipe
- (5) axle, triple steel board, balanced suspension. (2) Air lift (3) Spring, 12 x 20 double tires
- OAL 50' L x 10'10" W x 14' H with Mast on
- Back overhang 5'4"
- Axle spacing 4'6"
- (5) x 26,000 lbs. axles

III- SUBSTRUCTURE

- Model ZZT225D rated at 500,000 lbs – pull test 580K
- Floor Height – 19' 8-1/2" (scoped up)
- 11'6" W x 30' L x 10'3" H (scoped down)
- Under Rotary 17' 6"
- Clear area under beams – 15.7 feet
- Mechanical raise with adjustments for uneven locations
- Floor – 24 feet x 20 feet Complete with 2 walkways, and trailer walkway ladder..

IV- DERRICK AND TRAVELING EQUIPMENT

- Mast Model JJ22538 – API 4F Double (125' x 505,000 lbs.) (Clear Height 105')
- 53'10" (scoped in)
- Board heights – 72.2 feet/ 75 feet/ 78.7 feet
- Raising speed – 12 minutes from horizontal
- Hydraulically scoped (both cylinders repaired by Texas Hydraulic 2nd Qtr. 2013)
- 13,500 feet 4 ½" pipe racking capacity
- Wind resistance – 110 km/hr
- Complete with explosion-proof lighting and parameter lighting repaired 2nd Qtr. 2013).
- Complete with Geronimo line, sala block, tong cylinders
- 4 inch x 7000 psi standpipe and 3" ID x 60' kelly hose
- Crown Model TC225, 250-Ton capacity, 10 lines
- Traveling Block Limit Switch (Crown Block Saver) Safety device for limiting traveling block raising. Installed at the main drum to activate the main brake when traveling block is up to a pre-determined height.
- Racking board all welded The racking board automatically deploys as the mast is extended.
- Guylines Derrick includes (2) load guys from the crown to carrier and (1) set of wind guys that meet or exceed API specifications.

- Hydraulic Catheads
 - Hydraulic break out cylinder for breaking out pipe connections, 4 ft. stroke, maximum pull load 20,000 lbs. Installed on the mast. Includes cable, roller guides and hydraulic piping.
 - Hydraulic make up cylinder for making up pipe connections, 4 ft. stroke, maximum pull load 20,000 lbs. Installed on the mast. Includes cable, roller guides and hydraulic piping.
 - Controls are located at the operator's console.

V - ROTARY DRIVE SYSTEM

- Model ZP 275 – 27 ½ inch opening rated @ 500-Ton– API 7K
- Max speed – 300 rpm
- Torque – 20,265 foot lbs
- Right Angle Gear Box Driven (Shopped & Tested by TCM-Offshore, and spare in Doghouse).
- Permanent and ratcheting type locking systems
- Rotary torque sensor
- Master bushing rated for 500 Tons with API #3 interior – Pin drive

VI - LIQUID CAPACITIES

- Fuel Oil: 10,000 gallons 34' L x 8' W x 10' H skidded c/w loading hitches
- Process tank: 70 barrels
- Water Tank: 10,000 gallons 30' L x 10' W x 10' H skidded c/w loading hitches

VII - RIG POWER

- Two each Caterpillar C-18 (AR# 237-1955), (SN# WJH01434), (AR# 237-1955), (SN# WJH01431) electronic engines complete with Allison 6061 transmissions
- Two redundant hydraulic pumps mounted on transmissions for raising/lowering Mast
- Compound box Model BXJ, input speed max 2500 rpm, output torque 19,176 foot lbs

VIII - GENERATOR HOUSE

- Two Volvo diesel engines (Model TAD1641GE) 1800 RPM, 565Kw (Serviced by TCM-Offshore).
- Two Samford generators 400 Kw, 60 Hz, 3Ph, 1800 RPM (Serviced by TCM-Offshore).
- Electronic engine control panels (2)
- Fully enclosed house 31' L x 9'7" W x 10'6" H c/w loading hitches

IX - MCC HOUSE

- RG System – 3 gen cubicles – 4 MCC cubicles
- 500 kva 480 to 240/110 VAC transforms
- 480 vac MCC panel
- Air conditioned house c/w work desk, interior lighting, outside plug in receptacle panel
- MCC House 31'3" L x 9' W x 10'6" H c/w loading hitches

- Soft Start Cabinet #1
 - Merlin Gerin – NSC 160S 125A breaker (x4)
 - Telemecanique – LCID115 Magnetic Contactor (x7)
 - Telemecanique – ND / NC push buttons ZB2BW06.C
 - Telemecanique – Schneider button indicator XB2-BVB4LC (x6)
 - Telemecanique – Switch ZB2-BE101C
 - Telemecanique – Contact block LADN11 (x6)
 - Allen Bradley – Motor Controller SMC 135 amp 480 Vac 150-A135NBD

- Soft Start Cabinet #2
 - Merlin Gerin – NSC 160S 125A breaker (x4)
 - Telemecanique – LCID115 Magnetic Contactor (x7)
 - Telemecanique – ND / NC push buttons ZB2BW06.C
 - Telemecanique – Schneider button indicator XB2-BVB4LC (x6)
 - Telemecanique – Switch ZB2-BE101C 5
 - Telemecanique – Contact block LADN11 (x6)
 - Allen Bradley – Motor Controller SMC 135 amp 480 Vac 150-A135NBD
 - Merlin Gerin – NSC 160S 125A breaker (x4)
 - Telemecanique – LCID115 Magnetic Contactor (x7)
 - Telemecanique – ND / NC push buttons ZB2BW06.C
 - Telemecanique – Schneider button indicator XB2-BVB4LC (x6)
 - Telemecanique – Switch ZB2-BE101C
 - Telemecanique – Contact block LADN11 (x6)
 - Allen Bradley – Motor Controller SMC 135 amp 480 Vac 150-A135NBD

Feeder Cabinet 02-A

A1 thru A8: ABB S1 breakers

A9-A10: ABB Breaker MS 325 690V

A11-A12: ABB S2 Breaker I4= 160A UE=690V

A13: ABB S3 Breaker I4= 250A UE=690V

Incoming Cabinet 480V

ABB S1-I4=125A 4E=500V (x2) Breaker

ABB SACE F1-IN=1250A UE=415V (x2)
CHNT Transformer – 480V/240V NDK (BK) – 300 50/60 HZ (x2)
RT14-20-IEC=269 GB=13529 20A 380V

Lighting Cabinet – C

C1,C2,C3,C6,C11,C12,C13,C14: ABB S1 Breaker, IU= 125A 4E=500v
C4,C5,C7,C8,C9,C10,C15,C16,C17,C18,C19,C20: S252S Breaker C25, IEC-30898, GB-10963

Feeder Cabinet 01-B

B1 thru B8: ABB S1 Breaker, IU= 125A UE=500V
B9-B10: ABB Breaker MS 325, 690V
B11-B12: ABB S2 Breaker, I4= 160A UE=690V
B13: ABB S3 Breaker, IU=250A UE=690V

X - AIR COMPRESSOR HOUSE

- Sullair (2) 220 CFM screw compressors Model LS12-50HHAC SULL, SN# 88290006-329
- (2) 400-gallon air receivers ASME approved
- 125 gallon air receiver drawworks motors
- SRC 200 Dryer refrigerant
- SRC 220 dryer
- Two each 50HP Model LS12-50H helical air compressors, 50 HP, 37 Kw, 187 cfm
- Separator and volume tanks
- Fully enclosed house 32' L x 9'9" W x 10' H c/w loading hitches

XV- AUXILIARY EQUIPMENT

- Brake cooling tank with pumps (below Drillers House – one skid)
- (1) 20' container with associated spare parts/components for deck engines, drawworks and drive lines.
- One Hook/Block combo – Model YG225 – 500,000 lbs rebuilt/recertified
- Deadline Anchor with E-80 sensor – Type D Style Deadline Anchor to be used with compression type weight sensor. Drum type, mounted on carrier frame in front of drawworks frame.
- Fire fighting/Safety extinguishers 10 to 30 lbs.
- 5-1/4" Hex Kelly and Kelly Shuck

XVI- DRILLERS CONTROL STATION AND CONTROL HOUSE

- Fully enclosed with explosion proof A/C
- Indicator/Gauge & Counter
- Rotary Torque indicator, Weight indicator, and Tong torque gauge
- Hydraulic Power Unit for Disc Brake System