

# RECESSED REEL TUBING TRAILER

Quote No.: 10090  
Rev. Date: 11-15-13

Specification No.: 230 - 10090  
Page 1 of 4

## DESCRIPTION:

COILED TUBING WORK REEL TRAILER FURNISHED FOR THE PURPOSE OF PROVIDING AN AUXILIARY REEL TO BE OPERATED BY AN EXISTING COILED TUBING UNITS. A THREE (3) AXLE JEEP WILL BE INCLUDED BETWEEN THE TRACTOR AND REEL TRAILER, AND A TWO (2)-AXLE HYDRAULIC TILT BOOSTER WILL BE INCLUDED TO THE REAR OF THE TRAILER. THE REEL WILL BE MOUNTED IN THE APPROXIMATE CENTER OF THE TRAILER WITH THE REEL FLANGE RECESSED BELOW AND BETWEEN THE MAIN BEAMS OF THE TRAILER, ALLOWING FOR A MINIMUM OF 9" GROUND CLEARANCE. SUPPORT FOR THE REEL IS PROVIDED ON BOTH SIDES WITH ADDITIONAL SUPPORT BEAMS/CRADLES TO MINIMIZE SIDE SWAY. HYDRAULIC CONNECTIONS FOR THE REEL WILL BE MADE AT A BULKHEAD TRAILER MOUNTED PANEL BETWEEN THE REEL AND INJECTOR. PANEL WILL INCLUDE THE BULKHEAD FOR THE DEPTH ENCODER. A HYDRAULIC TILT STAND WILL BE BUILT INTO THE REAR OF THE TRAILER TO MOUNT A CUSTOMER SUPPLIED HR 6100 INJECTOR. THE BASIC FEATURES OF THE WORK REEL AND TRAILER ARE AS FOLLOWS:

### 1.0 WORK REEL (DISHD HEAD DESIGN)

- 1.1 CORE SIZE: ..... 89" CORE  
FLANGE OD ..... 166"  
WIDTH BETWEEN FLANGES ..... 102"  
TUBING SIZE: ..... 2.375"  
CAPACITY: ..... 22,800' @ 0 FREEBOARD  
SPREADER BAR REQUIRED. SPREADER BAR ASSEMBLY TO BE MOUNTED AT FOUR POINTS AND SHIP LOOSE. SLING NOT REQUIRED.
- 1.2 DRIVE SYSTEM/LEVELWIND: THE HYDRAULIC DIRECT DRIVE SYSTEM; 5000 SERIES DESIGN AND MECHANICAL CHAIN DRIVEN LEVELWIND WILL BE DESIGNED TO HANDLE 2-3/8" OD TUBING. LEVELWIND IS HYDRAULICALLY ADJUSTED TO WORKING POSITION AND INCLUDES A HYDRA RIG RC-201 NON-ADJUSTABLE COUNTER AND OILER. COUNTER AND OILER SET UP FOR 2.38" FEET. CONNECTIONS WILL BE PROVIDED TO HOLD DOWN GUIDE TUBE DURING TRANSIT.
- 1.3 NON H2S 15,000 PSI INTEGRAL PLUMBING AND MANIFOLDING: ONE (1) PLUG VALVE PROVIDED BETWEEN AXLE AND TUBING CONNECTION, TEE WITH A VALVE PROVIDED FOR BALL LAUNCHING AND TWO (2) PLUG VALVES PROVIDED EXTERNAL OF CIRCULATING SWIVEL. EXTERNAL PLUG VALVES AND DUAL INLET CONNECTIONS ON SWIVEL SIDE, TO BE MOUNTED TO TRAILER DECK. THE 2.00" BORE CIRCULATING SWIVEL WILL BE 15,000 PSI WP WITH HYDRA RIG DATA PACKAGE. PLUMBING TO BE MSI 1502 15,000 PSI WITH VENDOR PRODUCT CERTIFICATES. A 4:1 DEBOOSTER TO MONITER CIRCULATING PRESSURE. A 2X3 ADAPTER INSTALLED ON INTERNAL PLUMBING.
- 1.4 LUBRICATOR RESERVOIR FOR REEL TO BE MOUNTED ON TRAILER WITH HOSE FOR OILER. RESERVOIR TO BE REGULATED BY AIR REGULATOR WITH HOSE TO TUBING OILER.
- 1.5 CHAIN AND BINDER SYSTEM ON DRIVERS SIDE TO LOCK DOWN SPOOL WHILE IN TRANSIT.
- 1.6 FALL PROTECTION POLE WITH FALL ARRESTOR.



## RECESSED REEL TUBING TRAILER

Quote No.: 10090

Specification No.: 230 - 10090

Rev. Date: 11-15-13

Page 2 of 4

- 1.7 TUBING REEL TO DROP THRU TRAILER BEAMS WITH REEL SUBSTRUCTURE BASE. TRANSPORT STAND FOR STORAGE AND TRANSPORTATION OFF TRAILER.
- 1.8 TUBING REEL AND SPREADER BAR ASSEMBLY TO HAVE HYDRA RIG LIFT TEST WITH HYDRA RIG ISSUED COO/COC.
- 1.9 TUBING REEL TO HAVE QD BULKHEAD PANEL. HOSE BUNDLE TO QD AT REEL AND BE HARD PLUMBED TO TRAILER BULKHEAD PANEL FOR CAMLOCK REEL JUMPER BUNDLE TO CTU.

### 2.0 TRAILER

- 2.1 DIMENSIONS: APPROX. 57' LONG X 11' WIDE X 15' HIGH, WITH 51" FIFTH WHEEL HEIGHT REQUIREMENT WITH 2' KINGPIN. (NOTE: ACTUAL DESIGNED LENGTH WILL BE AS SHORT AS POSSIBLE, BASED ON MAXIMUM KINGPIN LOAD.)
- 2.2 CONSTRUCTION: DECKING WILL BE INSTALLED ON TOP DECK TO ACCOMMODATE A SMALL PHONE BOOTH STYLE CABIN DURING NORMAL OPERATIONS AND AT REAR OF TRAILER BEHIND REEL AND SUPPORT BEAMS. ELECTRIC OVER HYDRAULIC ASSIST LANDING GEAR IS INCLUDED. ALUMINUM HANDRAILS FROM REAR OF TRAILER TO REEL
- 2.3 TRAILER WILL BE 160,000 LBS GVW, FIVE AXLE (30,000 LBS EACH) DESIGN WITH AIR RIDE SUSPENSION WITH AIR DUMP FOR ONE AXLE. WHEELS TO BE POLISHED ALUMINUM.
- 2.4 HYDRAULIC TILT STAND, (WITH SAFETY LATCH), FOR CUSTOMER SUPPLIED INJECTOR. CUSTOMER TO PROVIDE INJECTOR FOR FINAL FITUP UPON HYDRA RIG'S REQUEST. INJECTOR CRADLE TO BE UTILIZED. A SMALL PLATFORM FOR INJECTOR MAINTENANCE TO BE INSTALLED ON TO TILT STAND.
- 2.5 SWING UP (U-JOINT STYLE) LADDER TO REACH UPPER DECK. LADDER TO HAVE ALUMINUM HANDRAIL. HANDRAILS FOR SAFETY AROUND UPPER DECK.
- 2.6 30 GALLON TUBING OILER TANK.
- 2.7 FOLD UP ALUMINUM WALKWAYS ON EACH SIDE OF TRAILER THE LENGTH OF THE REEL. ALUMINUM HANDRAILS FROM REEL TO REAR OF TRAILER.
- 2.8 HYDRAULIC CONTROLLED INJECTOR HOSE REEL WITH TWO (2) 1.50" INJECTOR POWER HOSES. HOSES TO HAVE HYDRAULIC INC CONNECTIONS.
- 2.9 MULTIPOINT HYDRAULIC CONTROLLED HOSE REEL FOR INJECTOR CONTROL HOSES. HOSES TO BE 125' LONG WITH HOSE SIZE OPTIMISED FOR INJECTOR FUNCTIONS AND TO BE WRAPPED IN VELCRO CORDURA. ONE 40' HOSE BUNDLE HARD CONNECTED TO HOSE REEL WITH CAMLOCK QD'S ON END TO CONNECT TO CAMLOCK QD PANEL ON CTU TRAILER. HOSE BUNDLE TO STORE ON WRAPPING POSTS ON REEL TRAILER.



## RECESSED REEL TUBING TRAILER

Quote No.: 10090

Specification No.: 230 - 10090

Rev. Date: 11-15-13

Page 3 of 4

- 2.10 TUBING REEL JUMPER HOSE BUNDLE; 40' IN LENGTH FOR CONNECTION TO CTU. HOSE BUNDLE TO BE HARD CONNECTED TO TRAILER BULKHEAD WITH CAMLOCK QD'S ON END TO CONNECT TO CAMLOCK QD PANEL ON CTU TRAILER. HOSE BUNDLE TO STORE ON WRAPPING POST ON REEL TRAILER.
- 2.11 TRI-AXLE JEEP (60,000 LB CAPACITY) TO BE USED AT FRONT OF TRAILER AND BOLT ON, FLOATING, HYDRAULIC LIFT DUAL-AXLE BOOSTER (40,000 LB CAPACITY) TO BE USED AT REAR OF TRAILER. TIRES ARE 275/70R22.5 (4 TIRES PER AXLE).

### 3.0 301F CONTROL CABIN

- 3.1 CONTROL CABIN TO BE MOUNTED ON TOP DECK OF TRAILER WITH THE FOLLOWING:

A HR 301, NON RAISE, (ON ISOLATION SPRINGS), CLIMATE CONTROLLED CABIN, WITH A WALL MOUNT A/C - HEATER, TWO OUTSIDE 120 VAC FLOODLIGHTS; WILL BE MOUNTED ON THE TOP DECK OF THE REEL TRAILER TO ALLOW A PERSON TO REMOTE OPERATE THE LEVELWIND (OVERRIDE & RAISE / LOWER) SYSTEM OF THE REEL AND TUBING OILER DURING NORMAL OPERATION. A ROLLAROUND OFFICE STYLE CHAIR FOR OPERATOR AND ONE FOLD DOWN SEAT ON REAR WALL. 120 VAC FLOURECENT LIGHTS ON CEILING. TWO 12V MAP LIGHTS MOUNTED TO SIDE WALLS ON EACH SIDE OF CONTROL PANEL. 12VDC WINDSHIELD WIPER. ELECTRIC WALL PLUG ON EACH SIDE WALL. CABIN FRAMEWORK TO BE SIMILAR TO HR 401 WITH CABINETS SIMILAR TO MERLIN, ON THE OFF DOOR SIDE. NO OTHER PROVISIONS REQUIRED. CABIN TO BE LOCATED AT FRONT OF TRAILER AND AS CLOSE TO CENTERLINE AS POSSIBLE TO ALLOW FOR THE DOOR TO OPEN/CLOSE. SMALL DESK REQUIREMENT ON PASSINGER SIDE WALL OF CABIN.

### 4.0 MISCELLANEOUS

- 4.1 THE COMPLETE UNIT WILL BE TESTED, PRIMED AND PAINTED TO CUSTOMER SPECIFIED COLOR. TRAILER DECK PAINTED WITH NON-SKID TYPE PAINT.
  - 4.1.1 TRAILER TO BE PAINTED DARK BLUE RXP00601. CLEAR COAT REQUIRED.
  - 4.1.2 ALL OTHER EQUIPMENT TO BE PAINTED BRIGHT GREEN RXP00600. CLEAR COAT REQUIRED.
- 4.2 COMPLETE UNIT TO BE ASSEMBLED AND TESTED FOR CUSTOMER ACCEPTANCE AT HYDRA RIG'S FT. WORTH, TEXAS, USA FACILITY.
- 4.3 THREE (3) OWNER'S MANUALS AND CD'S SUPPLIED WITH UNIT. HYDRA RIG SWIVEL DATA PACKAGE AND REEL PLUMBING TO HAVE VENDOR PRODUCT CERTIFICATES.
- 4.4 ALL QD'S TO BE SNAPTITE BRAND.
- 4.5 TUBING REEL AND SPREADER BAR ASSEMBLY TO HAVE HYDRA RIG LIFT TEST WITH HYDRA RIG ISSUED COO/COC.

## RECESSED REEL TUBING TRAILER

Quote No.: 10090  
Rev. Date: 11-15-13

Specification No.: 230 - 10090  
Page 4 of 4

### 5.0 GEN SET

- 5.1 10 KW, 120/240 VOLT, 60 HZ, SINGLE PHASE WITH 2 POLE 45 AMP CIRCUITBREAKER. RATED FOR 120 DEGREE AMBIENT TEMPERATURE.
- 5.2 12 VDC START WITH 30 AMP ALTERNATOR.
- 5.3 50 GALLON FUEL TANK WITH SIGHT GLASS.
- 5.4 DUAL OUTLET 120VAC RECEPTACLE.

