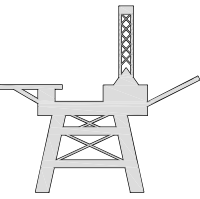
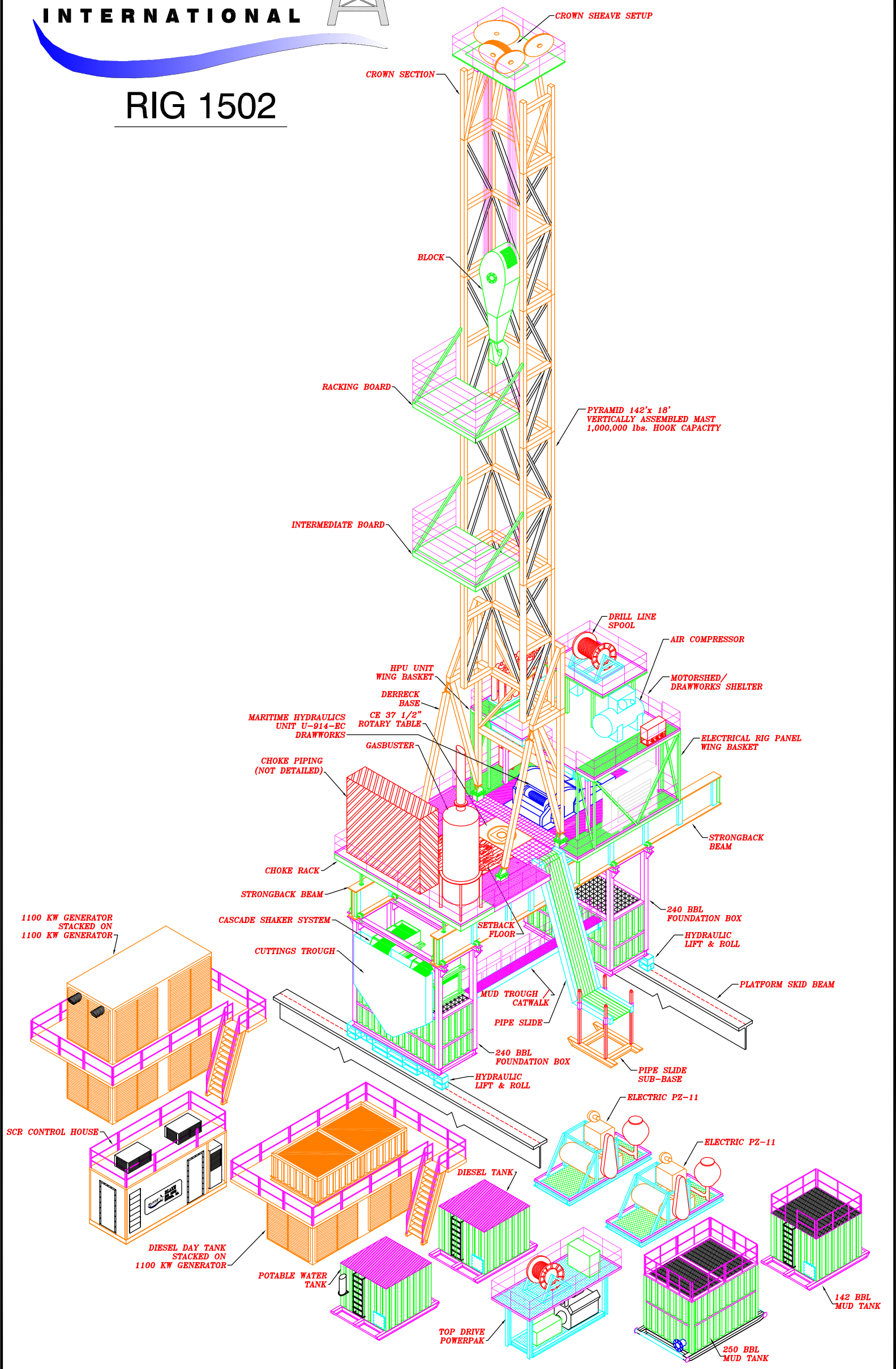


# BLAKE INTERNATIONAL



## RIG 1502





## Blake 1502E

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### BASIC EQUIPMENT INVENTORY

#### Mast and Superstructure

##### Assembly:

1. Pyramid 142'x18' "free standing" triples bootstrap mast with a static hook load of 1,000,000 pounds with 12 lines, 777,500 pounds with 10 lines. Maximum wind load 115 MPH, no setback and 100 MPH rated setback of 17,950' of 4-1/2" D.P. or 16,000' of 5 1/2" D.P.
2. Drill line (1-3/8") XXIP 12 lines, 994,704 Lbs. @ 2:1 S.F. and 663,136 lbs. @ 3:1 S.F. or (1 3/8") 10 lines 859,660 lbs. @ 2:1 S.F. and 573,107 lbs. @ 3:1 S.F.
3. Combined Hook and Setback 1,000,000 Lbs. on substructure.  
(Note: Max. drawworks rating 837,000 lbs. with 12 lines)

#### Master Skid and Substructure:

1. Mast and drawworks skid, 18' x 36" to accommodate a Pyramid 142' telescoping mast and 1500 H.P. drawworks with two (2) motor drive (electric).
2. Box girders 62 ft. by 5 ft 4 in.
3. Dual purpose substructure supports (7-compartments):
  - a. 20' x 8' x 17' 230 Bbl. 4 compartment active tank.
  - b. 20' x 8' x 17' 230 Bbl. 3 compartment shaker tank.
4. Split Master Skid with hyd. jacks and skid pipes (skid top section)
5. Hydraulic rig mover jacks and mats to skid total rig package under support boxes.
6. Motorshed (drawworks roof) with built in brake water tank, hydraulic drill line rack with 1-3/8" drill line, drill line anchor and air compressor skid.
7. Wing basket (off drillers side) with air purged motor control panel (MCC) 500 gal. hydraulic power unit (HPU).
8. Wing basket (drillers side), 160 gal. accumulator, 7 station with bottle skid and nitrogen back up.

#### Drawworks and Prime

##### Mover Assembly:

1. 1500 HP Maritime Hydraulic Unit U914EC electric drawworks with high/low drum clutch.
2. Baylor 6032 Eddy Current installed on drawworks with over riding clutch.
3. Cardwell (hydrocat) hydraulic breakout cathead with air controls (over hyd.)
4. Cardwell (hydrocat) hydraulic makeup cathead with air controls (over hyd.)



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5. CBS – H/L crown block saver.
6. Lebus grooving, split sleeves for 1-3/8" drill line.
7. Two (2) G.E. 752 traction motors 1000 HP (electric), factory frame (series) winding.
8. M.H. 2 speed transmission with dual drum drives
  - a. Chain drive rotary table.
  - b. One (1) elect. driven drawworks oiler pump with all stainless steel piping on air lines.
  - c. One (1) 3 x 2 mission magnum centrifugal pump for hydromatic brake cooling system.
  - d. Oil lubricating system with heat exchange.

### Rotary Table and Associated Equipment:

1. Continental Emsco T-3750 (37-1/2") rotary table with master bushing locks. Rated 650-tons dead weight capacity, maximum speed, 350 rpms.
2. Oilwell PC 500 Ton Swivel dead 500 Ton load capacity complete with 6-5/8" API regular left hand pin down substitute and link bumper, 366 ton capacity at 100 rpm (with quick change packing assembly).
3. Continental Emsco RA 52-6 500 Ton, with six (6) 52" diameter fabricated steel sheaves grooved for 1-3/8" drill line, 10" diameter coaster pin with BJ 5500 Hook.
4. 5-1/4" Hex kelly with 6-5/8" regular API LH box thread 40' long with 4-1/2" XH bottom connection.
5. OMSCO upper kelly valve, 6-5/8" 5,000 lbs. test pressure.
6. Varco kelly (pin) drive bushing complete with assembly for 5-1/4" Hex kelly with guide skirt.
7. Rotary hose, Copper State 7500 W.P., 4' x 75' long with 4" API line pipe couplings.
8. One (1) set BJ bails, 3-1/2" x 132" long, 500-ton or equivalent.
9. Two (2) set DU long slips.

### Travel and Associated Equipment:

1. 500 Ton Traveling block with six (6) fabricated steel sheaves, grooved for 1-3/8" drill line.
2. Set of Spinmaster 950H hyd. spinning tongs (for D.P. only) with Hydraulic Lift Kit.
3. One (1) set Wooley type "SDD" tongs for 4-1/2" Drill Pipe.



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### Pump Units:

1. Gardner-Denver PZ-11: (electric) (1600 H.P.)
  - a. Powered by (2) G.E. 752 traction motors (each).
2. Gardner-Denver PZ-11: (electric) (1600 H.P.)
  - a. Powered by (2) G.E. 752 traction motors (each).

### Blowout Preventer Stack:

1. One (1) Hydril GK, 13-5/8" 5,000 PSI working pressure annular preventer with 10m flange on bottom.
2. One (1) 13-5/8" Cameron Type "U" double, 10,000 lb. Working pressure with one set of booster for blind shear rams, with 13-5/8" 10,000 lb. working pressure flanges top and bottom, with 4-1/16" 10,000 lb. working pressure flange outlets between rams.
3. One (1) 13-5/8" Cameron type "U" single Ram type preventer, 10,000 lb. working pressure with one (1) 4-1/16" 10,000 lb. working pressure flange outlet.
4. One (1) set of blind shear rams and two (2) sets Variable Bore Rams (2-7/8"-5").
5. 16"OD Bell Nipple.
6. Two (2) 4-1/16" Cameron HCR valves rated at 10,000 PSI working pressure.
7. Two (2) 4-1/16" Cameron Type "F" manual valves, rated 10,000 PSI working pressure.

### Blowout Preventer Closing Unit:

1. Skid mounted blowout preventer closing unit (split skid) consisting of 160 gallon (7 station) 3,000 psi accumulator and manifold consisting of six (6) stations complete with (2) remote control station. Air and electric power sources and nitrogen backup system (and divertor panel).
2. BOP actuating lines between closing system and BOP stack.

### Choke Manifold:

1. Skid mounted 10,000 PSI working pressure choke manifold with 36" gas buster with 8" vent line.
2. 200' chocksan lines (15,000 test, 10,000 working pressure).

### Tankage (710 Bbl. Surface Volume):

1. Rig Substructure (460 Bbls.)
  - a. 1-230 bbl. shaker tank , 1-5 h.p. dual blade agitator with shakers. (Operator to furnish screens.)
  - b. 1-230 bbl. active tank with (4) 5 h.p. dual blade agitators.
  - c. 4-50 HP 5" X 6" Harrisburg electrical centrifugal pumps with mechanical seals.
  - d. Burgess model 1500 degasser (1500 gpm flow rate) 20 h.p. with 5 H.P. Turbo-Vac Booster.
  - e. 1-Vortex Lobestar shear mixer, 1- V-Slide surge hoppers and surge tank .Powered



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with 1-50 HP 5"X 6" Magnum electrical centrifugal pumps with mechanical seals

2. One (1) 250 BBL tank with agitator.
3. Additional 142 Barrel tanks are available if needed (to be charged at current rental rates.)
4. One (1) 30 BBL continuous fill trip tank with 2x3 centrifugal pump.

### Mud Processing System:

1. Unit has self contained mud system and engineered for excellent mud control.
  - a. 7-tank compartments, sand trap, settling tank, reserve tank, mixing tank, active tank and 2-slug tanks.
  - b. Top equalization between each compartment.
  - c. 36" gas buster with 8" vent and 8" discharges.
  - d. 2-Derrick System shale shakers model #2SG48-120F-4A, flo-Line Cleaner 514.
2. Unit is installed in rig substructure assembly.

### Accessory Rig Equipment:

1. Quarters: Accommodations for 55 Men.
  - 2- 12' x 36' 18 Man sleepers
  - 1- 12' x 36' 11 Man Office/Sleeper
  - 1- 12' x 36' Office (2 bunks)
  - 1- 12' x 36' Rec. Room/ 6 man sleeper
  - 1- 12' x 36' GalleyHeliport designed for S-76
2. Generators: 3 – 1050KW CAT 600 volt (1) 10' x 20' Generator House, 1-SCR (IPS Model 1500) house and gen. day tank and qtrs. panel.
3. Titan 12,000) crane for rig up and rig down only. (Operator to pay for transportation and installation, rental charges per day.)
4. Air Compressor for standard rig equipment.
  - 2-Quincy 390 Air compressors, 20 H.P. motors with 2-400 gal. air receivers.
5. One (1) 142 Bbl. diesel tanks and transfer pump.
6. Five (5) station gaitronic communication system.
7. Two (2) 142 Bbl. potable water tank and transfer pump.
8. One (1) sewage unit 1500 gal.
9. Two (2) Reda (40 H.P.) submersible pumps.
10. Drip pans and outlets with lines to operating system.



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11. Two (2) skid jacks on strong back beams and 2 rig mover mats.
12. Life jackets and work vests, 3-25 man life float, etc. for 75 men accommodations.
13. Standard safety equipment for normal operations.
14. One (1) personnel basket.
15. Gas buster, 36" with 8" vent and discharge.
16. Rig lube.
17. Viscosity funnel and mud scale.
18. B.O.P. New Hydraulic Driven Triplex Test Pump and Recorder at \$500.00 per test plus repair parts. (If this equipment is down for repairs, it will not go against the stated downtime for the rig and shall be treated as any other third party rental equipment on the rig.)
19. Gas detector and fire alarms. All labor for re-calibration and replacement of gas detector elements will be at the expense of the operator. (Installation at the expense of the Contractor)
20. Gauges for all Blake International furnished equipment.
21. Sump tank (Automatic feed to waste oil tank if desired).
22. Tool House (with rig tools).
23. Parts House (spare parts).
24. One (1) 500 Ton TESCO Hydraulic Top Drive.  
(Max. drilling torque \_ 40,000 #ft/lbs. at 50 rpms.)



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### **EQUIPMENT TO BE FURNISHED BY OPERATOR:**

1. Offshore workover permits.
2. Drilling site cleared of obstructions.
3. Marine and air transportation for equipment and supplies to platform within the field as necessary and for MOB/DEMOB of rig to and from Houma, Louisiana.
4. All marine and air transportation of Contractor's and Operator's Items and personnel between Operator's shore base and rig for crew change, safety personnel and operations personnel.
5. Fuel, rig water and bottled drinking water.
6. Weather forecasting and hurricane evacuation plan.
7. All electrical well logging services and unit rental, including string shot and back-off equipment (but Contractor to provide suitable space for installation of well logging unit) per the rig arrangement drawing.
8. All third party services including extra labor beyond Contractor labor schedule as previously stated (including third party for platform modifications, crane rig-up and MOB/DEMOB).
9. Operator agrees to rent workstring, handling tools and shear ram assembly as required.
10. Cementing equipment, P tanks, cement, mud and additives
11. Wellhead connections, if necessary, to permit rig operations on operating deck.
12. Flanged connection from Customer's tree or wellhead to 13-5/8" series 1500 flange.
13. Field welder and equipment when required (including third party for platform modifications, crane rig-up and MOB/DEMOB).
14. Platform communication system. (Operator will allow Toolpusher to phone in hot shot reports daily and the use of a FAX machine.)
15. Expendable BOP replacements (including annular BOP elements, ram BOP element and ring gaskets) after initial set.
16. Ring gaskets and handling tool inserts (operator will furnish or reimburse Contractor after initial sets).



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17. Replacement liners for pumps as designed to meet Operator's hydraulic specifications and expandable pump parts used after cement and/or acid job operations. Contractor to provide initial set of 6" and 6½" pump liners.
18. All third party equipment, services and supplies furnished by Blake International at the request of Operator will be invoiced to Operator at third party cost plus 10%.
19. Blake International rental equipment will be charged at the published or negotiated price in the contract. If this equipment is down for repairs, this does not go against the stated downtime for the rig and shall be treated as any other third party rental equipment on the rig. Repairs for Blake International rental equipment will be invoiced to the operator at third party rates plus 10% or published labor rates.
20. Casing, tubing and attachments.
21. Any drill pipe, and drill collars, kellys or subs in addition to those not furnished by Contractor.
22. Stabilizers, hole openers, reamers and centralizers.
23. Shale shaker screens.(Blake International to provide 80 mesh & larger shaker screens).
24. Well test unit and associated equipment for production testing.
25. Loading and unloading services at dock site or heliport of all material and equipment of Contractor and Operator.
26. Containers for disposal of refuse and cuttings to transport from offshore location to dock and disposal at dock site.
27. Casing thread dope, thread lock, etc. for Operator's tubulars.
28. Operator to provide pipe wipers.
29. Gaitronics communications in excess of five (5).
30. PVT equipment.
31. Transfer hoses.
32. Trash compactor bags and compactor rentals.