



**COMBATEL**  
DISTRIBUTION, INC.

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February 11, 1994

Mr. Gary Meagher, City Administrator  
City of Lindsborg  
101 South Main  
Post Office Box 70  
Lindsborg, Kansas 67456

QUOTATION #4674:

<u>Item</u>	<u>Quantity</u>	<u>Description</u>
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BASIC DERRICK

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|----|---|--|
| 1. | 1 | TELELECT Model Commander 92-45 Hydraulic Derrick, center mount over rear axle with command post and riding seat built in accordance with the following specifications: |
|----|---|--|

A. Performance Ranges -

1. Capacities:

<u>Degree</u>	<u>Boom Retracted</u>	<u>2nd Stage Boom Extended</u>
80°	20,200 Pounds	14,100 Pounds
60°	10,650 Pounds	6,400 Pounds
30°	7,150 Pounds	4,300 Pounds
0°	5,650 Pounds	3,200 Pounds
-20°	3,950 Pounds	2,050 Pounds

2. Elevation - From 80° above horizontal to 20° below horizontal.
3. Sheave Height - 36,2' At 80° with second stage extended.
4. Load Radius - 26.2' At 0° with second stage extended.

*A Young Company With Over Seven Decades Of Tradition Providing Access Equipment*

<u>Item</u>	<u>Quantity</u>	<u>Description</u>
		5. <u>Digging Radius</u> - Maximum 24.3'.
B.		<u>Boom Tip</u> - 8,000 Pound capacity worm gear winch. Winch is self-locking with oil cooled brake. Extended shaft for winch.
C.		<u>Cylinders</u> - Equipped with U-cup seals, nylon back-up rings; chrome plated rods, threaded glands and integral holding valves.
D.		<u>Pivot Bearings</u> - The major bearing support areas at the boom to mast connection and lift cylinders to boom are equipped with self-aligning steel ball bushings for extended life.
E.		<u>Box Beam Boom</u> - Box beam construction of high strength steel uses four steel plates which are welded at the corners where stress is minimal. The load falls primarily on the top and bottom plates providing a stronger yet lighter boom than other designs.
F.		<u>Rotation</u> - 360° Continuous <u>worm</u> gear rotation.
G.		<u>Derrick Protection and Safety:</u>
		1. <u>Dual Lift Cylinders</u> - Two lift cylinders provide double safety since either can support entire rated lift capacity. Also, trapezoid mounting design offers greater boom support and stability which means less wear and longer life.
		2. <u>Hydraulic Pressure Gauge</u> - Provides constant monitoring of hydraulic system.
		3. <u>Auger Stow Protection</u> - Valve is attached to auger stow bracket and prevents over stress of digger stow cable.
H.		<u>Command Post</u> - Multi lever controls with riding seat on left side of derrick.
I.		No electric or commutator type controls. Controls are all full pressure hydraulic

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		providing superior metering of derrick functions at engine idle, saving fuel and engine wear.
J.		<u>Holding Valves</u> - Cylinders are equipped with integrally mounted holding valves.
K.		Manual override of hydraulic functions.
L.		<u>Complete Hydraulic System:</u> <ol style="list-style-type: none"><li>1. Double vane high efficiency pump.</li><li>2. 2" Gate valve between pump and reservoir.</li><li>3. Fifty gallon hydraulic reservoir tank installed in cargo area. Includes 33 micron replaceable cartridge type return line filter mounted in reservoir with bypass valve incorporated in filter to prevent restricted flow. A 100 mesh screen in filler cap. A 40 mesh screen in tank outlet. Dip stick for checking oil levels, clean out access hole, and anti-splash baffle.</li><li>4. Glycerin filled pressure gauge to monitor circuit pressures.</li><li>5. <u>Reusable fittings</u> on all hoses.</li><li>6. Relief valves to protect the derrick circuits and digger/winch circuits.</li></ol>
M.		<u>Stabilizers</u> - Heavy duty A-frame outriggers, self-locking with integral holding valves. Each jack independently controlled.
N.		Prime painted.
O.		<u>Angle Indicators</u> - Angle indicators and decals mounted on both sides of main boom.
P.		<u>Load Charts</u> - A load chart stating actual lifting capacity considering final options, chassis, body, outriggers and other fixed

<u>Item</u>	<u>Quantity</u>	<u>Description</u>
		equipment with final readings based on completed unit stability.
		Q. <u>Manuals</u> - Two Operation and Maintenance manuals.
2.	1	<u>TELELECT Two-Speed Digger</u> - Planetary gear drive producing up to 8,700 ft./lbs. of torque, including: <ul style="list-style-type: none"><li>A. Digger for curbside.</li><li>B. 2 5/8" Hex output shaft.</li><li>C. High speed dirt spin-off.</li><li>D. Provisions for extending derrick stinger with and without digger.</li><li>E. <u>Digger Transfer Protection</u> - Protects against damage to transfer mechanism when stowing and unstowing digger and auger.</li><li>F. <u>Complete Auger Storage Mechanism</u>:<ul style="list-style-type: none"><li>1. Self-latching auger storage bracket.</li><li>2. Hydraulic auger release.</li><li>3. Digger transfer mechanism including automatic auger pick-up device.</li><li>4. Hydraulic shift for two-speed digger.</li></ul></li></ul>
3.	1	PENGO 18" diameter auger, full flight with 2 5/8" hex, dirt teeth, and pilot bit.
4.	1	<u>Hydraulically Extended Full Capacity Fiberglass Third Stage Boom</u> : <ul style="list-style-type: none"><li>A. <u>Balanced Boom Capacities</u> - Structurally capable of lifting the hydraulic capacity of the derrick in all positions.</li></ul>

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B. Capacities -

<u>Degree</u>	<u>2nd Stage Retracted &amp; 3rd Stage Extended</u>	<u>2nd &amp; 3rd Stage Extended</u>
80 <sup>o</sup>	16,150 Pounds	11,900 Pounds
60 <sup>o</sup>	7,100 Pounds	4,950 Pounds
30 <sup>o</sup>	4,700 Pounds	3,100 Pounds
0 <sup>o</sup>	3,550 Pounds	2,300 Pounds
-20 <sup>o</sup>	2,450 Pounds	1,450 Pounds

C. Increases effective sheave height from 36.2' to 45'.

D. Equipped with insulated head sheave providing a "clean" third stage with no steel exposure. Head sheave is used for hanging transformers, setting poles, etc.

E. Dielectrically tested at 100 KV.

F. Extension cylinder equipped with counter-balanced holding valves.

G. Boom supported and guided by non-metallic replaceable rollers, eliminating scratches and abrasions to the boom.

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| 5. | 1 | <u>Tilting Pole Plumber</u> - Circular design arms handle poles up to 15" in diameter. Claws fold up and out of way when not in use. Installed on the end of the second section, providing a "clean" third section fiberglass boom, <u>holding valve on tilt cylinder.</u> |
| 6. | 1 | Installation, including <u>full length</u> subframe assembly and derrick base installed on chassis.  |
| 7. | 1 | Auxiliary tool circuit with flow divider valve, handle, and quick disconnect outlets on curbside.  |
| 8. | 1 | Start/stop at console.   |
| 9. | 1 | Night light at console.  |

<u>Item</u>	<u>Quantity</u>	<u>Description</u>
10.	1	<u>Auxiliary "A" Frame Outriggers</u> - Installed front of body. Outrigger controls at rear.
11.	1	Three (3) function top controls.
12.	1	24 x 24 x 42" Fiberglass basket.
13.	1	Insulated two/speed and start stop at basket.
14.	1	Polyurethane basket liner furnished.
15.	1	Hydraulic oil and lubricants, installed.
16.	1	Cab control, heavy duty SAE power take-off, with warning light on dash.
17.	60'	Feet of 1" rope with eye in each end and J Hook.
18.	1	Derrick storage support with removable center, on outriggers.
19.	1	Basket storage bracket in body.
20.	1	Paint derrick Yellow with IMRON to match chassis polyurethane enamel.
21.	1	Basket support off boom rest.
22.	1	Two-speed throttle control at rear (electric).

**BODY AND ACCESSORIES**

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| 23. | 1 | <b>COMBATEL Model PL108-165 Platform Body</b> suitable for installing on a dual rear wheel chassis with a 108" CT dimension. Body is built in accordance with our standard specifications, including:<br><br>A. <u>Body</u> - Fabricated from steel treadplate.<br><br>1. 12 Gauge steel treadplate floor.<br><br>2. 6" Structural channel runners.<br><br>3. 4" Structural channel cross seals. |
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<u>Item</u>	<u>Quantity</u>	<u>Description</u>
B.		T-48 Saddle Pack Transverse Compartment installed at front, including:  <u>Saddle Pack - Dimensions:</u> <ol style="list-style-type: none"><li>1. 48" Outside width.</li><li>2. 36" Depth of transverse.</li><li>3. 48" Overall height.</li><li>4. 48" Floor height.</li><li>5. Tubing forms open storage area on top of compartment.</li></ol> <u>Compartmentation - Left Side:</u> 48" Vertical compartment with four J-hooks.  <u>Compartmentation - Right Side:</u> <ol style="list-style-type: none"><li>1. Three pullout drawers, two 6" high drawers with adjustable dividers, one 4" high drawer with ten adjustable dividers.</li><li>2. One shelf.</li><li>3. One 36" high pullout hanging tool board (vertical) with five J-hooks, two straight T-hooks, tool bit holder, drill holder, and tool storage.</li></ol>
D.		Access steps installed right side of body behind saddle pack. Transverse compartment with grab handle. <ol style="list-style-type: none"><li>1. Basic body fabricated from A-60 C iron-zinc alloy steel with 100% iron zinc alloy coating.</li><li>2. Chemically cleaned and phosphate coated for Electro/Static prime paint adhesion.</li><li>3. Doors are double paneled self-sealed, with stainless steel hinge pin that extends entire length of door.</li></ol>

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		4. All doors contain flush type, single point locks, with recessed handles, including keyed locks with two-stage strikers.
		5. Heavy gauge, welded steel base construction with safety tread floor.
		6. Chain stops on all vertical doors.

**MISCELLANEOUS ACCESSORIES**

24.	1	Six (6) 6" Pipe rail around transverse.
25.	2	Grab handles at rear of body, one each side.
26.	1	Pole puller storage bracket on curbside outrigger.
27.	1	Lights and reflectors in accordance with FMVSS #108 lighting package with cover guards, removable lights to be metal base Dietz.
28.	1	Installation of body and accessories.
29.	1	Paint body Yellow #9354701 with DuPont IMRON polyurethane enamel, to match chassis.
30.	2	Suspended stirrup steps, installed at rear of body.
31.	2	5" Lens spot work light adjustable up & down, and side to side with individual switches, and master in cab. Hinged wire mesh over work light.
32.	1	Special 6" Rail around flatbed made of expanded metal.
33.	1	(Set) Splash aprons, installed.
34.	1	Special thru box at rear 18" x 12" x 94" wide with hinged door at each side.
35.	1	T100A heavy duty pintle hook with chassis frame reinforcement and two safety rings.
36.	1	Install safety warning decals for general purpose users.



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37.	1	Model 651 target strobe installed on extension off boom rest, streetside with removable expanded metal guard.
38.	1	Combination rear platform extension and tamp box installed rear.
39.	1	Spring-loaded hose reel for storage of dual 30' hose, installed at rear behind outriggers on platform extension. Couplers to be F20196 female and F20197 male.
40.	1	D P Model 24 CDU, hydraulic capstan with CRP shaft installed under platform and tamp storage box with shaft extending curbside with controls curbside.
41.	1	(Set) Two 30' hydraulic hose with two quick couplings, dust caps, and fittings.
42.	1	Screw anchor adapter plate furnished.
43.	1	Pole rack designed to carry two poles. "D" Rings on chain hooks permanently attached on each side of pole cradles to attach binders. Rear portion to be removable, curbside.
44.	1	Kelly bar storage rack located by customer.
45.	1	Hanney grounding reel with 50' of #1-0 copper wire with ferrules.

TOTAL Price, Items #1 through #44.....

CHASSIS AND ACCESSORIES

45.	1	1995 Ford F-700 Cab and Chassis 108" Cab-to-Axle 177" Wheel base 9,000 Pounds front axle Heavy duty front shock absorbers 9,000 Pounds front springs 19,000 Pounds rear axle, 2-speed 19,000 Pounds rear springs Auxiliary rear springs
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<u>Item</u>	<u>Quantity</u>	<u>Description</u>
		5-Speed manual transmission
		6.50 to 9.07 ratio
		7.0L (429) EFI V-8, 235 GHP @ 3600 RPM, 358 GT, gasoline engine
		Extra capacity, heavy duty cooling system
		Air brakes with 13.2 CFM air compressor, automatic moisture ejector
		Maxi 11 spring-set rear axle air brake
		13" Single plate clutch
		Power steering
		35 Gallon step tank, left side (streetside)
		12-Volt electrical system with 95 Amp alternator & 380 CCA MF 45 Amp/hr battery
		Full width bench seat with fold down back, heavy duty vinyl cover, seat belts
		Dual sunvisors
		Tinted glass
		AM/FM radio
		West Coast style mirrors, 16" x 7", painted
		Cab assist handles
		Painted front bumper (white)
		Two (2) Front tow hooks
		Intermittent electrical windshield wipers and washers
		Hot water heater/defroster with variable speed blower
		Cigar lighter
		Tilting hood and fender assembly
		Tires: 10:00 x 20, 12 Ply on rear duals, Mud & Snow tread
		10:00 x 20, 14 Ply on front, standard highway tread
		Cast spoke wheels
		103.1" BBC Conventional chassis-cab
		Single stage dry type air cleaner
		Single horizontal muffler and exhaust pipe
		One (1) Quart oil filter
		Engine motor oil cooler
		Electric fuel pump
		Electric/Mechanical governor
		Color - Dupont #9354701 = Ford #WT6695, lead free
		Engine hour meter

Price Item #45.....