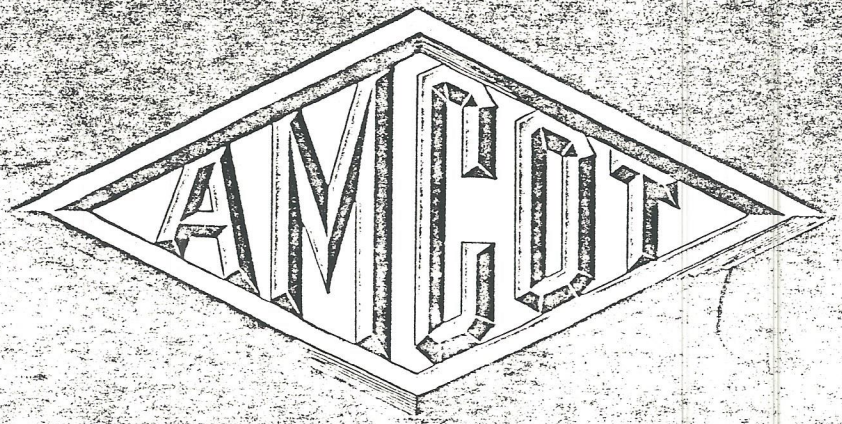
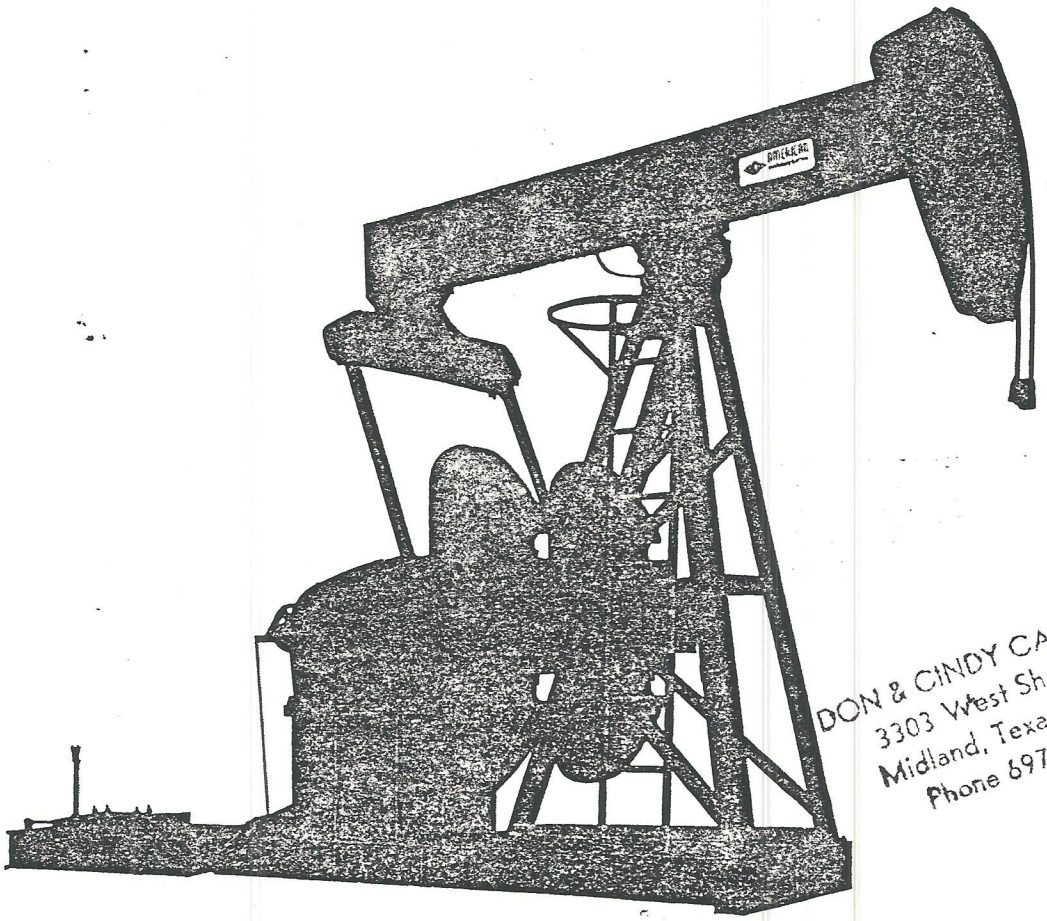
AMERICAN



DON & CINDY CANTRELL
3303 West Shandon
Midland, Texas 79703
Phone 697-5167



THE NEW "F" SERIES PUMPING UNITS

American Manufacturing Company of Texas has utilized more than 35 years of practical experience in engineering design and manufacturing to provide our customers with the FINEST PUMPING UNITS IN THE WORLD. As a direct result of our research and knowledge of the world-wide oil producing industry, American is now offering the Mighty Model "F" Series Pumping Units to the trade.

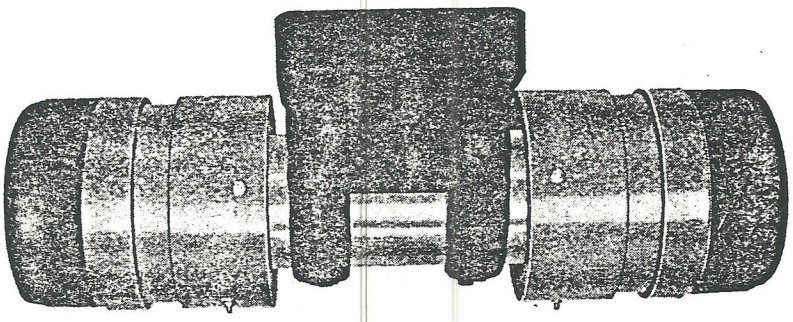
American personnel consulted field men, oil company engineers, purchasing agents, and independent producers about their pumping requirements. Thorough studies of pumping problems, both past and present, were made. Extensive destruction tests were conducted. The results of this research have convinced American that the "F" Series is the ultimate in pumping equipment!

FEATURES

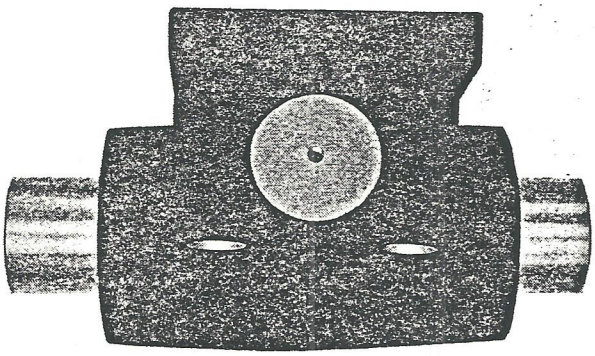
The "F" Model Units have longer and heavier structures. The T15F Model (shown above) four-legged derrick type Samson Post is 19" higher and 50% HEAVIER than any previous model of the same size. The heavy steel braces are more securely welded to the Samson Post legs from base to beam (made possible by improved engineering design), adding additional strength, rigidity, and life to the Samson Post. The greater strength built into these structures by American will assure a longer trouble-free life for your pumping unit.

INCREASED BEARING LIFE

Bronze Bushed Saddle Bearing Assemblies (Illus. 1) have been increased in capacity up to 30% above the normal requirements, and house an improved Saddle Shaft ground to a mirror finish. While this alone would greatly increase the bearing life, American has built the equivalent of a complete spare Saddle Bearing into each assembly. This is obtained by loosening the clamping bolts and rotating both the shaft and bushings 180 degrees to make use of the new bearing surfaces.



Illus. 1

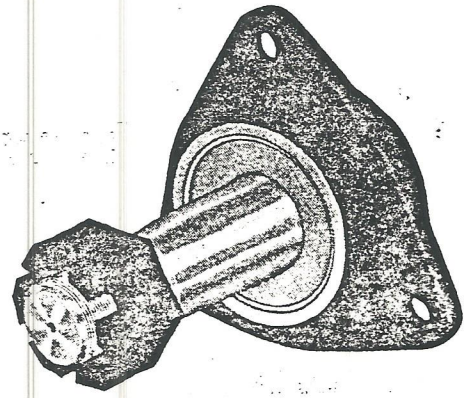


Illus. 2

Large bronze equalizer bearings (Illus. 2) are built with the same safety and increased capacities to eliminate costly maintenance and replacements. The trunnion to walking beam connection, like that of a universal joint, provides full equalization. Adjustable connections to the walking beam and equalizer require little effort to maintain proper clearances of the equalizer bearings and trunnions. Severe destruction tests conducted by American have punished this assembly 13½ times the rated unit capacity without damage to the component parts.

The large self-aligning Wrist Pin Bearings (Illus. 3) used on the Model "F" give excellent performance. These spherical roller bearings have one-piece outer-races that require no delicate adjustment when assembled. The bearing housings are equipped with safety retaining rings (an American exclusive), which, in the event of a complete bearing failure, retains the pitman on the wrist pin long enough to permit the unit to be shut down.

The bearing assemblies in pumping units are one of the most important factors in the proper operation and life of the unit. Therefore the increased bearing life built into the "F" Model units through American design and engineering is an important advance in the manufacture of quality pumping equipment.



Illus. 3

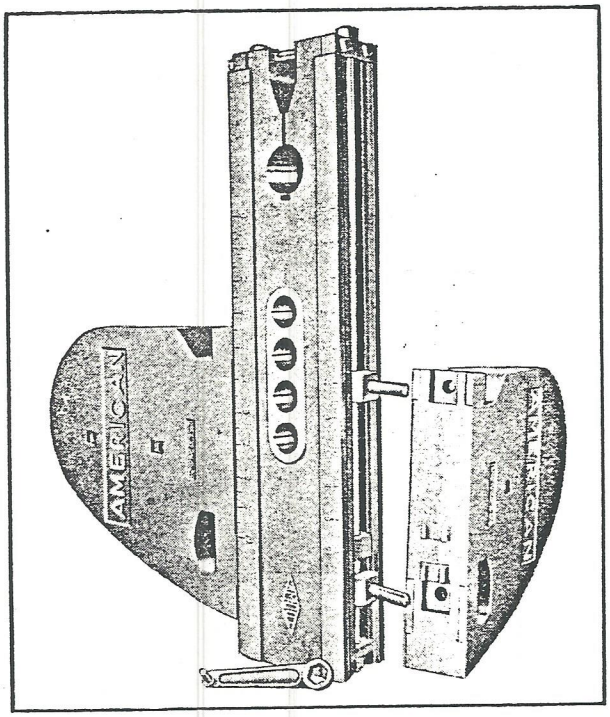
IMPROVED OIL AND GREASE RETAINERS

American design engineers have spent thousands of hours in research while attempting to find better methods of retaining oil and grease. First, for the ultimate in seal performance, all shafts having grease seals and bronze bushings are ground to a mirror-like surface, much smoother than produced by ordinary shaft grindings. Second, the seals are retained in their housings by retaining rings and cannot be forced out by high-pressure grease guns. Tests at American indicate that pressure relief valves normally open at 5 to 7 pounds per square inch, but when relief valve hole was sealed, American test engineers applied 750 pounds per square inch before the lip of the seal turned under, leaving the seal securely retained in the bearing housing. Eliminating oil and grease leaks means less maintenance and lower cost—another example of quality design in American pumping units.

SAFE AND EASY COUNTERBALANCE ADJUSTMENT

Adjustable counterbalance cranks by American (Illus. 4) are completely safe because the counterbalance weights will not slide off the end of the crank, or come off in any way unless the nuts and clamping bolts are completely removed. One person can easily and safely adjust the counterbalance by loosening two clamping bolts that hold each weight and turning the large electroplated acme thread screw that moves the weight to the desired position.

The wide range of solid one-piece counterweights, which are available on all units in the Model "F" Series, can provide any amount of counterbalance desired, thus eliminating the purchase of more counterbalance than might be needed for a particular condition. Therefore, American can supply you with the maximum counterbalance required at a minimum cost.



Illus. 4

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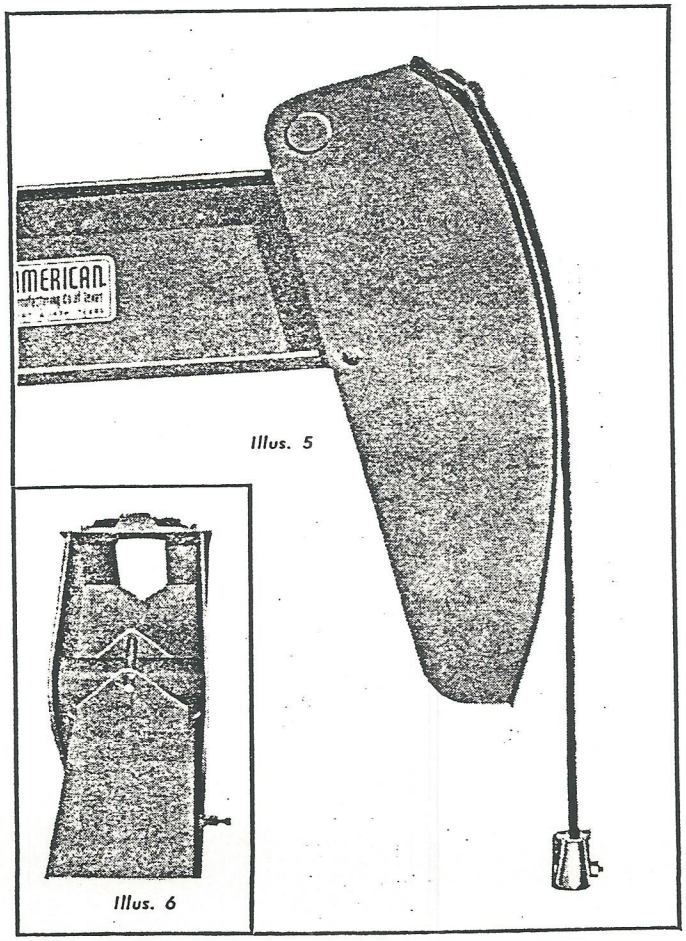


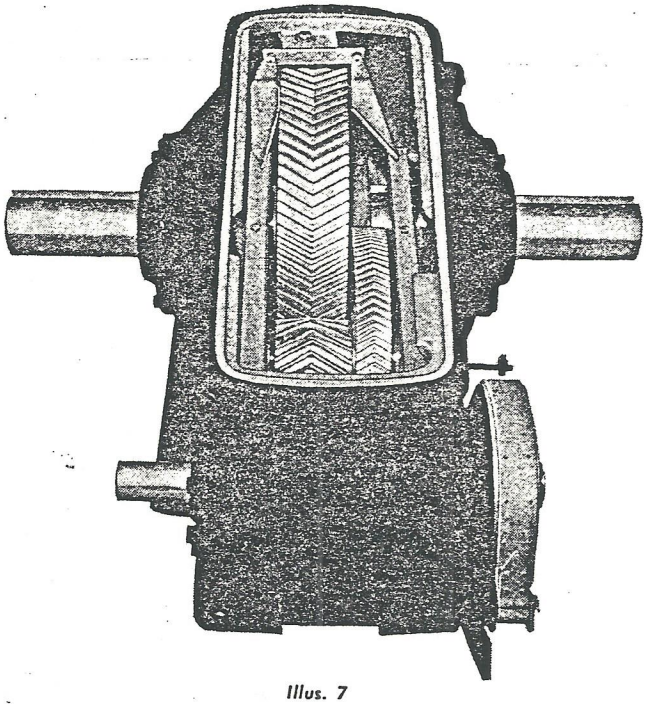
Illus. 5

Illus. 6

ADJUSTABLE BEAM AND SELF-ALIGNING MULEHEAD

Alignment difficulties, commonly found in many pumping units, have been completely eliminated in the American "F" Series. Not only can the walking beam be adjusted to and from the well a total of 2¾", but a 1" side-ways adjustment is also available in the sturdy trunnion casting on the saddle shaft. The mulehead itself (Illus. 5) is self-aligning with positive lateral adjustment to insure that the wire lines run true on the mulehead. The mulehead connects to a steel bearing at the top of the walking beam (Illus. 6), which allows the mulehead to swing back on top of the beam and provides for safe and convenient well-servicing.

REDUCERS AND BRAKES



Illus. 7

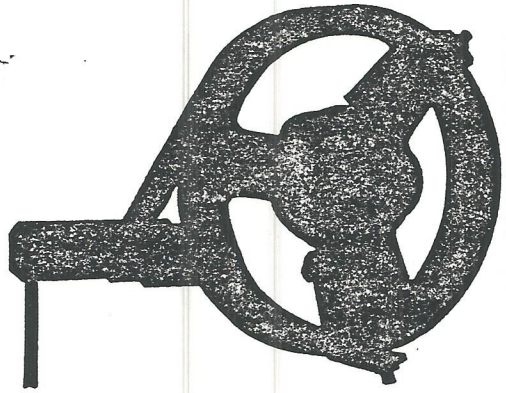
American Speed Reducers (Illus. 7) are especially designed for oil field pumping service and conform to A.P.I. specifications. These reducers have the reputation in the oil fields of giving many years of trouble-free service.

All reducers have fully heat-treated herringbone gears and pinions which provide long, trouble-free service. The gears and pinions are lapped at assembly to provide smooth, quiet operation.

American's Solid Type Gear Cases have tapered roller bearings on the slow speed shaft. The high and intermediate speed shafts have Hyatt Hy-load roller bearings. All shafts except the slow speed shaft are free to float to equalize the gear train.

A system of oil troughs and pockets fed by oil wipers gives positive bearing lubrication at all speeds. A controlled oil flow at all bearings assures proper lubrication at all times. All sizes of reducers are available on various unit structures to better fulfill your exact pumping unit requirements.

All American pumping unit speed reducers are equipped with a trouble-free brake (Illus. 8) which assures positive stop in any crank position. A ratchet type remote control lever provides a quick, safe means of holding the cranks in the desired position. The remote control lever is mounted on the end of the frame extension convenient to the prime mover clutch.



Illus. 8

OTHER IMPROVED FEATURES

The Ground Lubrication System on the "F" Series of American Pumping Units has been completely redesigned with full length copper tubing and flexible hose in order to deliver thoroughly clean lubrication to the bearings.

A Hydraulic Wrist Pin Ejector (optional) removes the wrist pin on "F" Series units with little effort, requiring only the hydraulic pressure of a grease gun. A grease fitting in the end of the wrist pin is readily accessible by removing a single plug in the center of the Wrist Pin Housing.

If your well requires dual completion pumps, American has available, as optional equipment, a polished rod hanger with special non-rotating mulehead cable. The distance from the center of the cable (or polished rod) to the front of this hanger is only $1\frac{5}{16}$" for maximum clearance.

Many other improved features, such as the large efficient band-type brake, the new forged steel brake hand lever, and the sturdy Sampson Post ladder with safety loop, are standard equipment on the new "F" Series Pumping Units by American.

AMERICAN MANUFACTURING COMPANY OF TEXAS

AMCOT

LIST OF STANDARD PUMPING UNITS

DON & CINDY CANTRELL
3303 West Shandon
Midland, Texas 79703
Phone 697-5167

BEAM BALANCED UNITS

UNIT DESCRIPTION	API Polished Rod Load Capacity (Lbs.)	API Peak Torque (In.-Lbs.)	Polished Rod Strokes (In.)	Reducer Gear Ratio	Standard Reducer Sheave
—T3D20-3-D10	3300	10,000	20, 17, 14¾	27.7:1	14″ PD-2B
T3D30-3-D10	2030	10,000	*30, 25½, 22	27.7:1	14″ PD-2B
T4E24-4-D10	#4000	10,000	24, 20, 17	27.7:1	14″ PD-2B
T4E24-4-D18	#4000	#19,200	24, 20, 17	30.0:1	18″ PD-3B
T5F24-5-D18	4740	#19,200	24, 20, 17¾	30.0:1	18″ PD-3B
T5F24-5-D25	4740	25,000	24, 20, 17¾	29.8:1	18″ PD-3B
T5F30-5-D18	4730	#19,200	30, 26, 21¾	30.0:1	18″ PD-3B
T5F30-5-D25	4730	25,000	30, 26, 21¾	29.8:1	18″ PD-3B
T5F36-5-D18	5380	#19,200	36, 32, 25¾	30.0:1	18″ PD-3B
T5F36-5-D25	5380	25,000	36, 32, 25¾	29.8:1	18″ PD-3B
T7D28-7-D25	7500	25,000	28, 24¼, 21¾, 19¾	29.8:1	18″ PD-3B
T7D36-7-D25	6000	25,000	*36, 31½, 28, 25½	29.8:1	18″ PD-3B

BEAM AND CRANK BALANCED UNITS

T7F30-7BC-D25	7600	25,000	30, 24, 18	29.8:1	18″ PD-3B
T7F30-7BC-D40	7600	40,000	30, 24, 18	27.7:1	18″ PD-4B
T7F36-7BC-D25	7600	25,000	36, 30, 24	29.8:1	18″ PD-3B
T7F36-7BC-D40	7600	40,000	36, 30, 24	27.7:1	18″ PD-4B
T7F42-7BC-D25	7600	25,000	42, 36, 30	29.8:1	18″ PD-3B
T7F42-7BC-D40	7600	40,000	42, 36, 30	27.7:1	18″ PD-4B
T9D34-9-D40	9500	40,000	34, 24	27.7:1	18″ PD-4B
T9D42-9-D57	9500	57,000	42, 32, 22	30.0:1	22″ PD-3C
T9D48-9-D57	8170	57,000	*48, 36½, 25	30.0:1	22″ PD-3C

ADJUSTABLE CRANK BALANCED UNITS

T8D28-8-D25Z	7500	25,000	28, 21	29.8:1	18″ PD-3B
T8D28-8-D40Z	7500	40,000	28, 21	27.7:1	18″ PD-4B
T8D36-8-D25Z	6200	25,000	*36, 27	29.8:1	18″ PD-3B
T8D36-8-D40Z	6200	40,000	*36, 27	27.7:1	18″ PD-4B
T9D42-9-D40Z	7480	40,000	*42, 29½	27.7:1	18″ PD-4B
T9D42-9-D57Z	7480	57,000	*42, 29½	30.0:1	22″ PD-3C
T9F36-9-D40Z	8840	40,000	36, 26	27.7:1	18″ PD-4B
T9F36-9-D57Z	8840	57,000	36, 26	30.0:1	22″ PD-3C
T9F48-9-D57Z	9000	57,000	48, 38, 28	30.0:1	22″ PD-3C
T9F48-9-D80Z	9000	80,000	48, 38, 28	29.9:1	24″ PD-3C
T9F48-9-D114Z	9000	114,000	48, 38, 28	30.6:1	24″ PD-4C
T9F54-9-D57Z	9000	57,000	54, 44, 34, 24	30.0:1	22″ PD-3C
T9F54-9-D80Z	9000	80,000	54, 44, 34, 24	29.9:1	24″ PD-3C
T9F54-9-D114Z	9000	114,000	54, 44, 34, 24	30.6:1	24″ PD-4C
T9F64-9-D80Z	9000	80,000	64, 54, 44, 34	29.9:1	24″ PD-3C
T9F64-9-D114Z	9000	114,000	64, 54, 44, 34	30.6:1	24″ PD-4C
T9F64-9-D160Z	9000	160,000	64, 54, 44, 34	29.0:1	26″ PD-5C
T10D42-10-D57Z	10,450	57,000	42, 32, 22	30.0:1	22″ PD-3C

Not API Size.
* Long stroke obtained by extended walking beam.

LIST OF STANDARD PUMPING UNITS

DON & CINDY CANTRELL
3303 West Shandon
Midland, Texas 79703
Phone 697-5167

ADJUSTABLE CRANK BALANCED UNITS—Continued

UNIT DESCRIPTION	API Polished Rod Load Capacity (Lbs.)	API Peak Torque (In.-Lbs.)	Polished Rod Strokes (In.)	Reducer Gear Ratio	Standard Reducer Sheave
T11F54-11-D57Z	10850	57,000	54, 44, 34, 24	30.0:1	22″ PD-3C
T11F54-11-D80Z	10850	80,000	54, 44, 34, 24	29.9:1	24″ PD-3C
T11F54-11-D114Z	10850	114,000	54, 44, 34, 24	30.6:1	24″ PD-4C
T11F64-11-D80Z	11000	80,000	64, 54, 44, 34	29.9:1	24″ PD-3C
T11F64-11-D114Z	11000	114,000	64, 54, 44, 34	30.6:1	24″ PD-4C
T11F64-11-D160Z	11000	160,000	64, 54, 44, 34	29.0:1	26″ PD-5C
T11F74-11-D80Z	10920	80,000	74, 64, 54, 44	29.9:1	24″ PD-3C
T11F74-11-D114Z	10920	114,000	74, 64, 54, 44	30.6:1	24″ PD-4C
T11F74-11-D160Z	10920	160,000	74, 64, 54, 44	29.0:1	26″ PD-5C
T12D42-12-D57Z	12000	57,000	42, 32, 22	30.0:1	22″ PD-3C
T12D48-12-D57Z	11100	57,000	*48, 36½, 25	30.0:1	22″ PD-3C
T12D48-12-D80Z	12000	80,000	48, 38, 28	29.9:1	24″ PD-3C
T15F48-15-D80Z	15000	80,000	48, 38, 28	29.9:1	24″ PD-3C
T15F48-15-D114Z	15000	114,000	48, 38, 28	30.6:1	24″ PD-4C
T15F48-15-D160Z	15000	160,000	48, 38, 28	29.0:1	26″ PD-5C
T15F54-15-D80Z	15000	80,000	54, 44, 34, 24	29.9:1	24″ PD-3C
T15F54-15-D114Z	15000	114,000	54, 44, 34, 24	30.6:1	24″ PD-4C
T15F54-15-D160Z	15000	160,000	54, 44, 34, 24	29.0:1	26″ PD-5C
T15F64-15-D80Z	15000	80,000	64, 54, 44, 34	29.9:1	24″ PD-3C
T15F64-15-D114Z	15000	114,000	64, 54, 44, 34	30.6:1	24″ PD-4C
T15F64-15-D160Z	15000	160,000	64, 54, 44, 34	29.0:1	26″ PD-5C
T15F64-15-D228Z	15000	228,000	64, 54, 44, 34	30.0:1	26″ PD-7C
T15F74-15-D114Z	14880	114,000	74, 64, 54, 44	30.6:1	24″ PD-4C
T15F74-15-D160Z	14880	160,000	74, 64, 54, 44	29.0:1	26″ PD-5C
T15F74-15-D228Z	14880	228,000	74, 64, 54, 44	30.0:1	26″ PD-7C
T17C54-17-D114Z	17300	114,000	54, 44, 34, 24	30.6:1	24″ PD-4C
T17C54-17-D160Z	17300	160,000	54, 44, 34, 24	29.0:1	26″ PD-5C
T17C64-17-D114Z	17300	114,000	64, 54, 44, 34	30.6:1	24″ PD-4C
T17C64-17-D160Z	17300	160,000	64, 54, 44, 34	29.0:1	26″ PD-5C
T21F64-21-D160Z	20720	160,000	64, 54, 44, 34	29.0:1	26″ PD-5C
T21F64-21-D228Z	20720	228,000	64, 54, 44, 34	30.0:1	26″ PD-7C
T21F64-21-D320Z	20720	320,000	64, 54, 44, 34	30.3:1	34″ PD-8C
T21F74-21-D160Z	21000	160,000	74, 64, 54, 44	29.0:1	26″ PD-5C
T21F74-21-D228Z	21000	228,000	74, 64, 54, 44	30.0:1	26″ PD-7C
T21F74-21-D320Z	21000	320,000	74, 64, 54, 44	30.3:1	34″ PD-8C
T21F86-21-D160Z	21000	160,000	86, 76, 66, 56	29.0:1	26″ PD-5C
T21F86-21-D228Z	21000	228,000	86, 76, 66, 56	30.0:1	26″ PD-7C
T21F86-21-D320Z	21000	320,000	86, 76, 66, 56	30.3:1	34″ PD-8C
T27D74-27-D228Z	27000	228,000	74, 64, 54, 44	30.0:1	26″ PD-7C
T27D74-27-D320Z	27000	320,000	74, 64, 54, 44	30.3:1	34″ PD-8C
T27D84-27-D228Z	27000	228,000	84, 74, 64, 54	30.0:1	26″ PD-7C
T27D84-27-D320Z	27000	320,000	84, 74, 64, 54	30.3:1	34″ PD-8C
T27D84-27-D456Z	27000	456,000	84, 74, 64, 54	29.8:1	48″ PD-7D
T27D100-27-D228Z	24100	228,000	*100, 90, 80, 70	30.0:1	26″ PD-7C
T27D100-27-D320Z	24100	320,000	*100, 90, 80, 70	30.3:1	34″ PD-8C
T27D100-27-D456Z	24100	456,000	*100, 90, 80, 70	29.8:1	48″ PD-7D

* Long stroke obtained by extended walking beam.

AMERICAN MANUFACTURING COMPANY OF TEXAS

COUNTERBALANCE CHART FOR PUMPING UNITS WITH ADJUSTABLE COUNTERBALANCE CRANKS AND OPTIONAL MASTER WEIGHTS

Pumping Unit Description		Type Master Weight	Maximum Effective Counterbalance at Maximum Stroke	
Pumping Unit	Maximum Stroke		Less Pocket Weights (Lbs.)	With Pocket Weights (Lbs.)
T8D-D25Z or T8D-D40Z	28"	T8	3900	5250
T8DL-D25Z or T8DL-D40Z	36"	T8	3030	4080
T9D-D40Z	34"	T9	5780	7250
T9DL-D40Z	*42"	T9	4680	5870
T10D-D57AZ	42"	T12	4590	6040
T10D-D57AZ	42"	T14	5560	7000
T10DL-D57AZ	*48"	T12	4010	5290
T10DL-D57AZ	*48"	T14	4870	6130
T12D-D57Z	42"	T12	6580	8450
T12D-D57Z	42"	T14	7820	10100
T12DL-D57Z	*48"	T12	5790	7440
T12DL-D57Z	*48"	T14	6840	8850
T12DL-D57Z	48"	T12	5790	7440
T12D-D80Z	48"	T14	6870	8860
T12D-D80Z	*54"	T12	5100	6550
T12DL-D80Z	*54"	T14	6110	7880
T12DL-D80Z	48"	T14	7480	9660
T14C-D114Z	48"	T12	6230	8260
T14C-D114Z	54"	T14	8270	10610
T14CL-D114Z	54"	T12	6960	9060
T14CL-D114Z	54"	T17	8940	13150
T14CL-D114Z	54"	T17	8600	12640
T17C-D114Z	54"	T14	7950	10210
T17C-D114Z	54"	T12	6690	8710
T17C-D114Z	54"	T20	9290	13950
T17C-D114Z	54"	T17	8600	12640
T17C-D160Z	54"	T14	7950	10210
T17C-D160Z	54"	T12	6690	8710
T17C-D160Z	54"	T20	9290	13950
T17C-D160Z	64"	T17	9140	13260
T17CL-D114Z	64"	T14	8400	10730
T17CL-D114Z	64"	T12	7110	9140
T17CL-D114Z	64"	T20	9890	14690
T17CL-D114Z	64"	T17	9140	13260
T17CL-D160Z	64"	T14	8400	10730
T17CL-D160Z	64"	T12	7110	9140
T17CL-D160Z	64"	T20	9890	14690
T17CL-D160Z	64"	T20	9890	14690
T20C-D160Z	64"	T17	9140	13260
T20C-D160Z	64"	T14	8400	10740
T20C-D160Z	64"	T12	7110	9140
T20C-D160Z	64"	T27	12750	20740
T20C-D160Z	64"	T20	9890	14690
T20C-D160Z	64"	T17	9140	13260
T20C-D228Z	64"	T14	8400	10740
T20C-D228Z	64"	T12	7110	9140
T20C-D228Z	64"	T27	12750	20740
T20C-D228Z	64"	T20	10830	16020
T20C-D228Z	74"	T17	9970	14400
T20CL-D160Z	74"	T14	9090	11640
T20CL-D160Z	74"	T12	7700	9850
T20CL-D160Z	74"	T20	10830	16020
T20CL-D160Z	74"	T17	9970	14400
T20CL-D228Z	74"	T14	9090	11640
T20CL-D228Z	74"	T12	7700	9850
T20CL-D228Z	74"	T27	12730	20700
T20CL-D228Z	74"	T20	9830	14540
T27D-D228Z	74"	T17	9050	13070
T27D-D228Z	84"	T27	13110	21190
T27D-D320Z	84"	T20	10090	14860
T27D-D320Z	84"	T17	9280	13320

* Long Stroke Obtained by Extended Walking Beam.

Prices on Application

ter Weights.

R. C. BLAKE COMPANY
ROGER C. BLAKE
5818 CHIMNEY WOOD CR.
FORT WORTH, TX 76112
817-451-5263
FAX: 817-451-6129

T3D PUMPING UNIT

BEAM COUNTERBALANCED

UNIT DESCRIPTION		ZONE 1 (INCLUDING MAXIMUM EFFECTIVE COUNTERBALANCE AT THE POLISHED ROD AT MAXIMUM STROKE OF BEAM WEIGHTS)														
MAX. STROKE, SERIES, POLISHED ROD LOAD CLASS, TWIN CRANKS, FRAME TYPE, STRUCTURE, DOUBLE REDUCTION, API SIZE REDUCER	API POLISHED ROD CAPACITY (LBS.)	1 WT.	2 WTS.	3 WTS.	4 WTS.	5 WTS.	6 WTS.	7 WTS.	8 WTS.	9 WTS.	10 WTS.	11 WTS.	12 WTS.	13 WTS.	14 WTS.	15 WTS.	
STANDARD T3D20-3-D10	3300	320#	490#	660#	820#	980#	1130#	1290#	1440#	1600#	1740#	1890#	2030#	2170#	2300#	2440#	
STANDARD T3D30-3-D10	2030	210#	320#	440#	540#	650#	750#	860#	960#	1060#	1160#	1260#	1350#	1440#	1530#	1630#	

WIDE FRAME UNIT	ZONE 1
ADD TO STANDARD FRAME	

ACCESSORIES	ZONE 1
FOUNDATION BOLTS, SET	
CENTERLINE BOLTING CONSISTING OF CLAMPS, FOUNDATION BOLTS, SLEEVE NUTS, STUDS, NUTS, AND WASHERS	

ADD TO ZONE 1	
ZONE 2	
ZONE 3	
ZONE 4	
ZONE 5	

MISCELLANEOUS	ALL ZONES
CUSTOM PAINTING: ONE COLOR / TWO COLORS	
REDUCER OIL D10	

COMPONENTS INCLUDED WITH UNIT
ONE HOLE PLAIN CRANKS POLISHED ROD HANGER WIRE LINE BRAKE ASSEMBLY REDUCER SHEAVE BELT GUARD SLIDE RAILS FOR ZC-52 OR ELECTRIC MOTOR LONG FRAME

TORQUE FACTORS ON REQUEST

SUBJECT TO CHANGE WITHOUT NOTICE

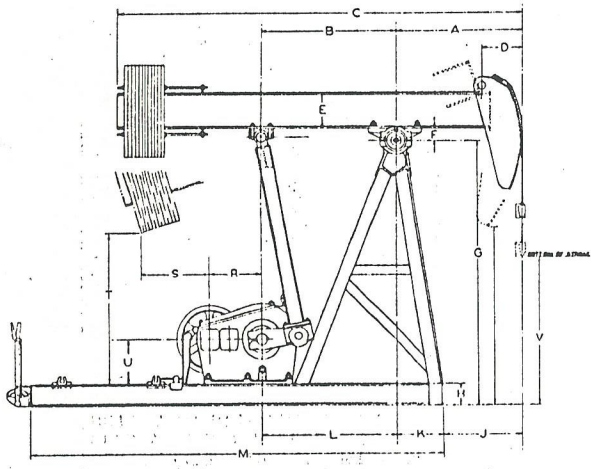
AMERICAN
MFG. CO. OF TEXAS

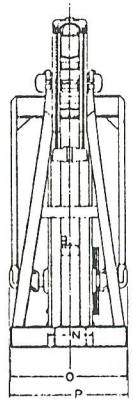
QUALITY - SERVICE

DON & CINDY CANTRELL
3303 West Shandon
Midland, Texas 79703
Phone 697-5167

AMERICAN MFG. CO. OF TEXAS EFFECTIVE JUNE, 1959 T3D PUMPING UNIT

T5F UNIT SPECIFICATIONS





MAXIMUM STROKE
SERIES
POLISHED ROD LOAD CLASS
TWIN CRANK

STRUCTURE
DOUBLE REDUCTION
A.P.I. REDUCER SIZE

T 5 F 30 6 D25

BEARING SPECIFICATIONS									
WRIST PIN		SADDLE	T5F24	T5F30	T5F36	EQUALIZER	T5F24	T5F30	T5F36
PIN DIA. AT CRANK	1.938 IN.	SHAFT DIA.	3 1/2 IN.	3 1/2 IN.	3 1/2 IN.	SHAFT DIA.	2 1/2 IN.	2 1/2 IN.	2 1/2 IN.
TAPER PER FOOT	3/4 IN.	BUSHING MAT'L.	BRONZE	BRONZE	BRONZE	BUSHING MAT'L.	BRONZE	BRONZE	BRONZE
TYPE BEARING	SPHERICAL ROLLER	PROJECTED AREA	30.6 IN^2	30.6 IN^2	30.6 IN^2	PROJECTED AREA	14.1 IN^2	14.1 IN^2	14.1 IN^2
MIN B-10 LIFE	100,000 HRS.	UNIT LOADING	358 PSI	278 PSI	405 PSI	UNIT LOADING			
TYPE LUBRICANT	GREASE	TYPE LUBRICANT	GREASE	GREASE	GREASE	TYPE LUBRICANT	GREASE	GREASE	GREASE

UNIT	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	R	S	T	U	V
T5F24-6-D18	36"	36"	9'-4 3/8"	11 1/2"	8"	3 3/8"	72"	5 7/8"	46 1/2"	23"	13"	36"	9'- 5 1/4"	12 1/2"	32"	32 5/8"	14.375"	18 1/2"	36 1/8"	12"	31 3/8"
T5F24-6-D25	36"	36"	9'-4 3/8"	11 1/2"	8"	3 3/8"	72"	5 7/8"	46 1/2"	23"	13"	36"	9'- 5 1/4"	13 3/4"	32"	35 5/8"	15.885"	17"	36 1/8"	13"	31 3/8"
T5F30-6-D18	45"	36"	10'-1 1/8"	11 1/2"	8"	3 3/8"	72"	5 7/8"	43 1/2"	32"	13"	36"	9'- 5 1/4"	12 1/2"	32"	32 5/8"	14.375"	18 1/2"	36 1/8"	12"	25 7/8"
T5F30-6-D25	45"	36"	10'-1 1/8"	11 1/2"	8"	3 3/8"	72"	5 7/8"	43 1/2"	32"	13"	36"	9'- 5 1/4"	13 3/4"	32"	35 5/8"	15.885"	17"	36 1/8"	13"	25 7/8"
T5F36-6-D18	54"	54"	12'-4 1/8"	11 1/2"	10"	3 3/8"	79"	5 7/8"	45"	39 3/4"	14 1/4"	54"	10'-11 3/8"	13 3/4"	35"	32 5/8"	14.375"	15 3/4"	36 1/8"	18"	27 1/2"
T5F36-6-D25	54"	54"	12'-4 1/8"	11 1/2"	10"	3 3/8"	79"	5 7/8"	45"	39 3/4"	14 1/4"	54"	10'-11 3/8"	13 3/4"	35"	35 5/8"	15.885"	14 1/4"	36 1/8"	19"	27 1/2"

WALKING BEAM			
	T5F24	T5F30	T5F36
API POLISHED ROD CAP.	4740 LBS.	3700 LBS.	5380 LBS.
POLISHED ROD STROKE	17-20-24	22-25-30	25-32-36
BEAM SIZE AND WEIGHT	8"WF@20#	8"WF@20#	10"WF@29#
WORKING CTRS. FRONT	36"	45"	54"
REAR	41-36-31	41-36-31	59-54-49
LONGITUDINAL ADJUSTMENT	2"	2"	2"
LATERAL ADJUSTMENT	7/8"	7/8"	7/8"

PITMAN			
	T5F24	T5F30	T5F36
SIZE CHANNEL	4" @ 5.4#	4" @ 5.4#	4" @ 5.4#
PITMAN LENGTH TO CRANK RADIUS RATIO	5.56:1	5.56:1	3.46:1

EQUALIZER BEAM	
SIZE AND WEIGHT	6" WF @ 12#

SAMSON POST	
TYPE	4 LEG DERRICK
SIZE LEGS FRONT	3 1/2 x 3 x 1/4 ANGLE
REAR	3 1/2 x 2 1/2 x 1/4 ANGLE
SIZE BRACES	2" x 2" x 3/16 ANGLE
ATTACHMENT TO FRAME	WELDED

FRAME	
SIZE AND WEIGHT	6" WF @ 8.5#

MULEHEAD	
TYPE	SELF ALIGNING, SWING BACK ADJUSTABLE & REMOVABLE
SIZE WIRELINE	5/8" (6x25 TYPE W)

CENTER DISTANCES						
	T5F24		T5F30		T5F 36"	
PRIME MOVER	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.
3 HP AND 5 HP ELECTRIC MOTOR	24"	36"	24"	36"	25"	37"
FAIRBANKS - MORSE ZC-52	20"	30"	20"	30"	21"	30"
FAIRBANKS - MORSE ZC-118	20"	27"	20"	27"	20"	27"
CLIMAX C-46	20"	29"	20"	29"	20"	29"
CONTINENTAL Y-69	23"	36"	23"	36"	24"	37"
WITTE 98RC	19"	28"	19"	28"	20"	28"
WAUKESHA ICKU	24"	36"	24"	36"	26"	37"
WISCONSIN AEH	24"	36"	24"	36"	26"	37"
HERCULES ZX8	ON REQUEST					

BL MAX. = 2C MAX. + 1.57 (D + d)
BL MIN. = 2C MIN. + 1.57 (D + d)
BL = V-BELT PITCH LENGTH
C = UNIT CENTER DISTANCE
D = REDUCER SHEAVE PITCH DIA.
d = PRIME MOVER SHEAVE PITCH DIA.

AMERICAN
MFG. CO. OF TEXAS
AMCOT
QUALITY - SERVICE

REDUCER SPECIFICATIONS ON REQUEST
TORQUE FACTORS ON REQUEST

SPECIFICATIONS

SPECIFICATIONS T5F

DON & CINDY CANTRELL
3303 West Shandon
Midland, Texas 79703
Phone 697-5167

SUBJECT TO CHANGE WITHOUT NOTICE

T5F PUMPING UNIT

BEAM COUNTERBALANCED

UNIT DESCRIPTION		API POLISHED ROD CAPACITY (LBS.)	ZONE 1 (INCLUDING MAXIMUM EFFECTIVE COUNTERBALANCE AT THE POLISHED ROD AT MAXIMUM STROKE OF BEAM WEIGHTS)																	
MAX. STROKE / SERIES / POLISHED ROD LOAD CLASS / TWIN CRANKS / FRAME TYPE / STRUCTURE DOUBLE REDUCTION / API SIZE REDUCER			1 WT.	2 WTS.	3 WTS.	4 WTS.	5 WTS.	6 WTS.	7 WTS.	8 WTS.	9 WTS.	10 WTS.	11 WTS.	12 WTS.	13 WTS.	14 WTS.	15 WTS.	16 WTS.	17 WTS.	18 WTS.	19 WTS.
STANDARD	T5F24-6-D18	4740	240#	480#	720#	950#	1180#	1410#	1630#	1850#	2070#	2280#	2490#	2690#	2890#	3090#	3290#	3480#	3670#	3850#	4030#
STANDARD	T5F24-6-D25	4740	240#	480#	720#	950#	1180#	1410#	1630#	1850#	2070#	2280#	2490#	2690#	2890#	3090#	3290#	3480#	3670#	3850#	4030#
STANDARD	T5F30-6-D18	3700	190#	390#	580#	760#	940#	1130#	1300#	1480#	1650#	1820#	1990#	2150#	2320#	2470#	2630#	2780#	2930#	3080#	3230#
STANDARD	T5F30-6-D25	3700	190#	390#	580#	760#	940#	1130#	1300#	1480#	1650#	1820#	1990#	2150#	2320#	2470#	2630#	2780#	2930#	3080#	3230#
STANDARD	T5F36-6-D18	5380	200#	400#	600#	800#	990#	1180#	1370#	1550#	1740#	1920#	2100#	2280#	2450#	2620#	2790#	2960#	3120#	3280#	3450#
STANDARD	T5F36-6-D25	5380	200#	400#	600#	800#	990#	1180#	1370#	1550#	1740#	1920#	2100#	2280#	2450#	2620#	2790#	2960#	3120#	3280#	3450#

* WIDE FRAME UNIT	ZONE 1
ADD TO STANDARD FRAME NET PRICE	

ACCESSORIES	ZONE 1
SIDE EXTENSION FOR SINGLE CYLINDER & MULTI-CYLINDER ENGINE WITH SLIDE RAILS (NOT REQUIRED FOR ZC-52 & ZC-118) INCLUDES ALLOWANCE FOR SLIDE RAILS FOR ZC-52, ZC-118 OR ELECTRIC MOTOR	
FOUNDATION BOLTS	
CENTERLINE BOLTING CONSISTING OF CLAMPS, FOUNDATION BOLTS, SLEEVE NUTS, STUDS, NUTS & WASHERS.	

ADD TO ZONE 1	
ZONE 2	
ZONE 3	
ZONE 4	
ZONE 5	

* IF SIDE EXTENSION REQ'D. - ADD ALSO

MISCELLANEOUS	ALL ZONES
CUSTOM PAINTING: ONE COLOR / TWO COLORS	
REDUCER OIL D18 / D25	
VEE ATTACHMENT TO PULL ONE WELL	ON REQUEST

COMPONENTS INCLUDED WITH UNIT
ONE-HOLE PLAIN CRANKS
DUAL-COMPLETION POLISHED ROD HANGER
SWING-BACK MULEHEAD
BRAKE ASSEMBLY
REDUCER SHEAVE
WIRE LINE
BELT GUARD
LONG FRAME
SLIDE RAILS FOR ZC-52, ZC-118 OR ELECTRIC MOTOR

TORQUE FACTORS ON REQUEST

SUBJECT TO CHANGE WITHOUT NOTICE

DON & CINDY CANTRELL
3303 West Shandon
Midland, Texas 79703
Phone 697-5167

AMERICAN
MFG. CO. OF TEXAS

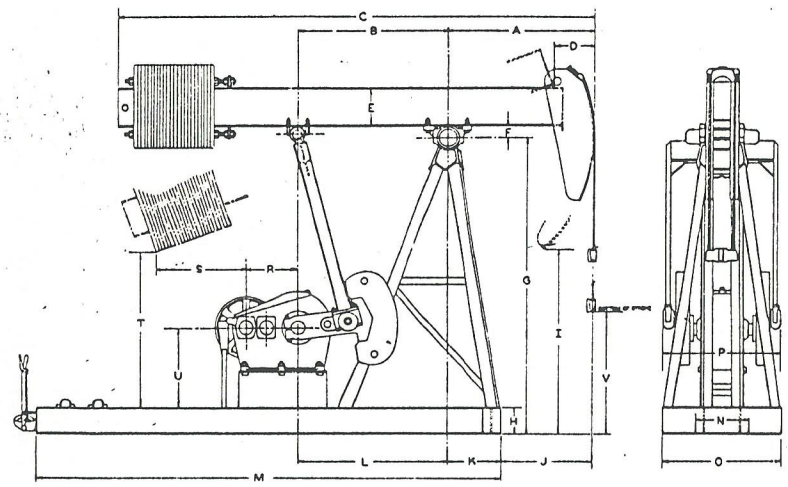
AMCOT

QUALITY - SERVICE

AMERICAN MFG. CO. OF TEXAS EFFECTIVE JUNE, 1959

T5F PUMPING UNIT

T7F UNIT SPECIFICATIONS



MAXIMUM STROKE
SERIES
POLISHED ROD
LOAD CLASS
TWIN CRANK
STRUCTURE
BC — BEAM & CRANK BALANCED
B — BEAM BALANCED ONLY
DOUBLE REDUCTION
A.P.I. REDUCER SIZE

T 7 F 30 — 7 BC — D40

BEARING SPECIFICATIONS

WRIST PIN	
Pin Dia. at Crank	1.938 In.
Taper Per Foot	¾ In.
Type Bearing	Spherical Roller
Min. B-10 Life	100,000 Hrs.
Type Lubricant	Grease

SADDLE	T7F30	T7F36
Shaft Dia.	3½ In.	3½ In.
Bushing Mat'l.	Bronze	Bronze
Projected Area	42 In.²	42 In.²
Unit Loading	381 PSI	355 PSI
Type Lubricant	Grease	Grease

EQUALIZER	T7F30	T7F36
Shaft Dia.	2½ In.	2½ In.
Bushing Mat'l.	Bronze	Bronze
Projected Area	14.1 In.²	14.1 In.²
Unit Loading		
Type Lubricant	Grease	Grease

UNIT DESIGNATION	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	R	S	T	U	V
T7F30-7BC-D25	45"	45"	12'-1-3/16"	11-7/16"	12"	3⅜"	89"	8"	46⅝"	29"	16"	45"	11'8"	16½"	37"	36"	15.883"	31⅛"	48¾"	24"	38½"
T7F30-7BC-D40	45"	45"	12'-1-3/16"	11-7/16"	12"	3⅜"	89"	8"	46⅝"	29"	16"	45"	11'8"	16½"	37"	44⅞"	17.250"	29¾"	48¾"	24"	38½"
T7F30-7B-D25	45"	45"	12'-1-3/16"	11-7/16"	12"	3⅜"	89"	8"	46⅝"	29"	16"	50⅛"	12'1⅛"	19¼"	37"	36"	15.883"	26"	48¾"	13"	38½"
T7F30-7B-D40	45"	45"	12'-1-3/16"	11-7/16"	12"	3⅜"	89"	8"	46⅝"	29"	16"	50⅛"	12'1⅛"	19¼"	37"	44⅞"	17.250"	24⅝"	48¾"	12"	38½"
T7F36-7BC-D25	54"	54"	13'-7-3/16"	11-7/16"	12"	3⅜"	89"	8"	43⅝"	38"	16"	54"	12'5"	16½"	37"	36"	15.883"	31⅛"	45¾"	27"	35½"
T7F36-7BC-D40	54"	54"	13'-7-3/16"	11-7/16"	12"	3⅜"	89"	8"	43⅝"	38"	16"	54"	12'5"	16½"	37"	44⅞"	17.250"	29¾"	45¾"	27"	35½"
T7F36-7B-D25	54"	54"	13'-7-3/16"	11-7/16"	12"	3⅜"	89"	8"	43⅝"	38"	16"	59⅛"	12'10⅛"	16½"	37"	36"	15.883"	26"	45¾"	27"	35½"
T7F36-7B-D40	54"	54"	13'-7-3/16"	11-7/16"	12"	3⅜"	89"	8"	43⅝"	38"	16"	59⅛"	12'10⅛"	16½"	37"	44⅞"	17.250"	24⅝"	45¾"	27"	35½"

WALKING BEAM

	T7F30	T7F36
A.P.I. Polished Rod Cap.	7600 lbs.	7100 lbs.
Polished Rod Strokes	18-24-30	24-30-36
Beam Size and Weight	12"X6½" @27#	12"X6½" @31#
Working Ctrs. Front	45"	54"
Rear	45"	54"
Longitudinal Adjustment	2"	2"
Lateral Adjustment	⅞"	⅞"

PITMAN

SIZE AND TYPE	4" [@5.4#
PITMAN LENGTH TO CRANK RADIUS RATIO	
T7F30-7BC	3.888:1
T7F30-7B	4.654:1
T7F36-7BC	3.037:1
T7F36-7B	3.621:1

EQUALIZER BEAM

SIZE AND WEIGHT	6X4 WF @ 12#

SAMSON POST

Type	4 Leg Derrick
Size Legs — Front	3½"X3"X⅜" Angle
Rear	3½"X2½"X⅜" Angle
Size Braces	2"X2"X3/16" Angle
Height—Fdn. to Brg.	89 In.
Attachment to Frame	Welded

FRAME

Size and Weight	8"X5¼" @17#
Length	See "M"
Width at Front Legs	37"

MULEHEAD

Type	Self Aligning, Swingback Adjustable & Removable
Size Wireline	⅝" (6X25 Type W)

ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

CENTER DISTANCES T7F30-7BC T7F36-7BC UNITS ONLY

PRIME MOVER	MIN.	MAX.
5 H.P. Electric Motor	36	50
7½ H.P. Electric Motor	35	48
Ajax 5X6½"	25	31
Climax C46	26	41
Climax C61	30	45
Cont. Y69	35	48
Norberg - 4FG1	32	46
Wauk. - ICKU	34	50
Witte 98RC	33	42
ZC - 118	30	39
ZC - 208	26	35

BL MAX. = 2C MAX. + 1.57 [D + d]
BL MIN. = 2C MIN. + 1.57 [D + d]
BL = V-BELT PITCH LENGTH
C = UNIT CENTER DISTANCE
D = REDUCER SHEAVE PITCH DIA.
d = PRIME MOVER SHEAVE PITCH DIA.

AMERICAN
MFG. CO. OF. TEXAS

AMCOT

QUALITY - SERVICE

REDUCER SPECIFICATIONS ON REQUEST — TORQUE FACTORS ON REQUEST

SPECIFICATIONS T7F

DON & CINDY CANTRELL
3303 West Shandon
Midland, Texas 79703
Phone 697-5167

T7F PUMPING UNIT

COMBINATION BEAM AND NON-ADJUSTABLE CRANK COUNTERBALANCED

WITHOUT CRANK WEIGHTS

UNIT DESCRIPTION	API POLISHED ROD CAPACITY (LBS.)	ZONE 1 NET PRICE (INCLUDING MAXIMUM EFFECTIVE COUNTERBALANCE AT THE POLISHED ROD AT MAXIMUM STROKE OF BEAM WEIGHTS OR BEAM WEIGHTS WITH NON-ADJUSTABLE CRANK WEIGHTS)																					
MAX. STROKE — STRUCTURE; SERIES — BEAM & NON-ADJ. CRANK C'BAL.; POLISHED ROD LOAD CLASS — DOUBLE REDUCTION; TWIN CRANKS — API SIZE REDUCER; FRAME TYPE		1 WT.	2 WTS.	3 WTS.	4 WTS.	5 WTS.	6 WTS.	7 WTS.	8 WTS.	9 WTS.	10 WTS.	11 WTS.	12 WTS.	13 WTS.	14 WTS.	15 WTS.	16 WTS.	17 WTS.	18 WTS.	19 WTS.	20 WTS.	21 WTS.	22 WTS.	23 WTS.	24 WTS.
STANDARD T7F30-7BC-D25	7600	690#	930#	1180#	1410#	1650#	1880#	2110#	2340#	2570#	2790#	3010#	3220#	3440#	3650#	3860#	4060#	4260#	4460#	4630#	4860#	5040#	5240#	5420#	5600#
STANDARD T7F30-7BC-D40	7600	690#	930#	1180#	1410#	1650#	1880#	2110#	2340#	2570#	2790#	3010#	3220#	3440#	3650#	3860#	4060#	4260#	4460#	4630#	4860#	5040#	5240#	5420#	5600#

WITH CRANK WEIGHTS

STANDARD T7F30-7BC-D25	7600	1540#	1780#	2030#	2260#	2500#	2730#	2960#	3190#	3420#	3640#	3860#	4070#	4290#	4500#	4710#	4910#	5110#	5310#	5480#	5710#	5980#	6090#	6270#	6450#
STANDARD T7F30-7BC-D40	7600	1540#	1780#	2030#	2260#	2500#	2730#	2960#	3190#	3420#	3640#	3860#	4070#	4290#	4500#	4710#	4910#	5110#	5310#	5480#	5710#	5980#	6090#	6270#	6450#

*WIDE FRAME UNIT	ZONE 1
ADD TO STANDARD FRAME NET PRICE	

ACCESSORIES	ZONE 1
SIDE EXTENSION FOR SINGLE CYLINDER & MULTI-CYLINDER ENGINE WITH SLIDE RAILS (NOT REQUIRED FOR ZC-118 & ZC-208) Includes allowance for slide rails for ZC-118, ZC-208 or electric motor	
FOUNDATION BOLTS	
CENTERLINE BOLTING CONSISTING OF CLAMPS, FOUNDATION BOLTS, SLEEVE NUTS, STUDS, NUTS & WASHERS:	

ADD TO ZONE 1	
ZONE 2	
ZONE 3	
ZONE 4	
ZONE 5	

*IF SIDE EXTENSION REQ'D ADD ALSO

MISCELLANEOUS	ALL ZONES
CUSTOM PAINTING: ONE COLOR / TWO COLORS	
REDUCER OIL D25 / D40	
VEE ATTACHMENT TO PULL ONE WELL	ON REQUEST

COMPONENTS INCLUDED WITH UNIT
THREE-HOLE PLAIN CRANKS
FLOOR CLEARING REDUCER SUB-BASE
WIRE LINE ASSEMBLY
BRAKE ASSEMBLY
REDUCER SHEAVE
SWING-BACK MULEHEAD
WRENCH FOR WRIST PIN NUT
GROUND LUBRICATION SYSTEM
LONG FRAME
SLIDE RAILS FOR ZC-118, ZC-208 OR ELECTRIC MOTOR

TORQUE FACTORS ON REQUEST

SUBJECT TO CHANGE WITHOUT NOTICE

AMERICAN MFG. CO. OF TEXAS

QUALITY - SERVICE

AMERICAN MFG. CO. OF TEXAS EFFECTIVE JUNE, 1959

T7F PUMPING UNIT

COMBINATION BEAM AND NON-ADJUSTABLE CRANK COUNTERBALANCED

DON & CINDY CANTRELL
3303 West Shandon
Midland, Texas 79703
Phone 697-5167

T8D PUMPING UNIT

MASTER WEIGHTS

UNIT DESCRIPTION		ZONE 1 (INCLUDING MAXIMUM EFFECTIVE COUNTERBALANCE AT THE POLISHED ROD AT MAXIMUM STROKE)						
MAX. STROKE, SERIES, POLISHED ROD LOAD CLASS, TWIN CRANKS, FRAME TYPE, STRUCTURE, DOUBLE REDUCTION, API SIZE REDUCER, ADJUSTABLE CRANK		API POLISHED ROD CAPACITY (LBS.)		2T8MW	2T8MW 2T8PW	4T8MW	4T8MW 2T8PW	4T8MW 4T8PW
STANDARD	T8D28-8-D25Z	7500		2420#	3050#	3890#	4520#	5150#
STANDARD	T8D28-8-D40Z	7500		2420#	3050#	3890#	4520#	5150#
STANDARD	T8D36-8-D25Z	6200		1880#	2370#	3020#	3510#	4000#
STANDARD	T8D36-8-D40Z	6200		1880#	2370#	3020#	3510#	4000#

* WIDE FRAME UNIT ADD TO STANDARD FRAME	ZONE 1

ACCESSORIES	ZONE 1
MOTOR EXTENSION FOR HIGH PRIME (STUBBY)	
SIDE EXTENSION FOR SINGLE CYLINDER & MULTI-CYLINDER ENGINE WITH SLIDE RAILS (NOT REQUIRED FOR ZC-118) INCLUDES ALLOWANCE FOR SLIDE RAILS FOR ZC-118 OR ELECTRIC MOTOR	
FOUNDATION BOLTS, SET	
CENTERLINE BOLTING CONSISTING OF CLAMPS, FOUNDATION BOLTS, SLEEVE NUTS, STUDS, NUTS & WASHERS.	

ADD TO ZONE 1	
ZONE 2	
ZONE 3	
ZONE 4	
ZONE 5	

*IF SIDE EXTENSION REQ'D—ADD ALSO.

MISCELLANEOUS	ALL ZONES
CUSTOM PAINTING: ONE COLOR	
TWO COLORS	
REDUCER OIL D25	
D40	
VEE ATTACHMENT TO PULL ONE WELL	ON REQUEST

COMPONENTS INCLUDED WITH UNIT
ADJUSTABLE CRANKS AS ORDERED
CRANK WEIGHT ADJUSTING WRENCH
FLOOR CLEARING REDUCER SUB-BASE
WIRE LINE ASSEMBLY
SWING BACK MULEHEAD
BRAKE ASSEMBLY
REDUCER SHEAVE
WRENCH FOR WRIST PIN NUT
GROUND LUBRICATION SYSTEM
BELT GUARD
LONG FRAME
SLIDE RAILS FOR ZC-118 ENGINE OR ELECTRIC MOTOR

TORQUE FACTORS ON REQUEST

SUBJECT TO CHANGE WITHOUT NOTICE

AMERICAN

MFG. CO. OF TEXAS

QUALITY - SERVICE

DON & CINDY CANTRELL
3303 West Shandon
Midland, Texas 79703
Phone 697-5167

AMERICAN MFG. CO. OF TEXAS EFFECTIVE JUNE, 1959 T8D PUMPING UNIT

T9D PUMPING UNIT

COMBINATION BEAM AND NON-ADJUSTABLE CRANK COUNTERBALANCED

WITHOUT CRANK WEIGHTS

UNIT DESCRIPTION (MAX. STROKE, SERIES, POLISHED ROD LOAD CLASS, TWIN CRANKS, FRAME TYPE, STRUCTURE, DOUBLE REDUCTION, API SIZE REDUCER)		ZONE 1 API POLISHED ROD CAPACITY (LBS.)	(INCLUDING MAXIMUM EFFECTIVE COUNTERBALANCE AT THE POLISHED ROD AT MAXIMUM STROKE OF BEAM WEIGHTS OR BEAM WEIGHTS WITH NON-ADJUSTABLE CRANK WEIGHTS)																						
			1 WT.	2 WTS.	3 WTS.	4 WTS.	5 WTS.	6 WTS.	7 WTS.	8 WTS.	9 WTS.	10 WTS.	11 WTS.	12 WTS.	13 WTS.	14 WTS.	15 WTS.	16 WTS.	17 WTS.	18 WTS.	19 WTS.	20 WTS.	21 WTS.	22 WTS.	23 WTS.
STANDARD	T9D34-9-D40	9500	880#	1100#	1330#	1550#	1780#	1990#	2210#	2420#	2630#	2830#	3040#	3240#	3440#	3630#	3830#	4020#	4220#	4400#	4580#	4760#	4940#	5110#	5290#
STANDARD	T9D42-9-D40	7480	710#	890#	1070#	1260#	1440#	1610#	1790#	1960#	2130#	2290#	2460#	2620#	2780#	2940#	3100#	3260#	3410#	3560#	3710#	3850#	4000#	4140#	4280#
STANDARD	T9D42-9-D57	9500	880#	1100#	1330#	1550#	1780#	1990#	2210#	2420#	2630#	2830#	3040#	3240#	3440#	3630#	3830#	4020#	4220#	4400#	4580#	4760#	4940#	5110#	5290#
STANDARD	T9D48-9-D57	8170	770#	960#	1160#	1360#	1550#	1740#	1930#	2110#	2300#	2480#	2660#	2830#	3010#	3180#	3350#	3520#	3690#	3850#	4000#	4160#	4320#	4470#	4630#
WITH CRANK WEIGHTS																									
STANDARD	T9D34-9-D40	9500	2320#	2540#	2770#	2990#	3220#	3430#	3650#	3860#	4070#	4270#	4480#	4680#	4880#	5070#	5270#	5460#	5660#	5840#	6020#	6200#	6380#	6550#	6730#
STANDARD	T9D42-9-D40	7480	1880#	2060#	2240#	2420#	2600#	2780#	2950#	3120#	3290#	3460#	3620#	3790#	3950#	4110#	4260#	4420#	4580#	4730#	4870#	5020#	5160#	5300#	5440#
STANDARD	T9D42-9-D57	9500	2210#	2430#	2660#	2880#	3100#	3320#	3540#	3750#	3960#	4160#	4370#	4570#	4770#	4960#	5160#	5350#	5540#	5720#	5910#	6090#	6270#	6440#	6620#
STANDARD	T9D48-9-D57	8170	1930#	2130#	2320#	2520#	2710#	2900#	3090#	3280#	3460#	3640#	3820#	4000#	4170#	4340#	4510#	4680#	4840#	5010#	5170#	5330#	5480#	5640#	5790#

*WIDE FRAME UNIT	ZONE 1
ADD TO STANDARD FRAME	

ACCESSORIES	ZONE 1
MOTOR EXTENSION FOR HIGH PRIME (STUBBY)	
FRAME EXTENSION FOR SINGLE CYLINDER ENGINE OR ELECTRIC MOTOR WITH SLIDE RAILS	
FRAME EXTENSION FOR MULTI-CYLINDER ENGINE - WITH SLIDE RAILS	
FRAME EXTENSION FOR ELECTRIC MOTOR ONLY - WITH SLIDE RAILS	
FOUNDATION BOLTS, SET	
CENTERLINE BOLTING CONSISTING OF CLAMPS, FOUNDATION BOLTS, SLEEVE NUTS, STUDS, NUTS, AND WASHERS:	
LADDER WITH SAFETY RING	

ADD TO ZONE 1 NET	
ZONE 2	
ZONE 3	
ZONE 4	
ZONE 5	

*SELECTED FRAME EXTENSION MUST ALSO BE ADDED

MISCELLANEOUS	ALL ZONES
CUSTOM PAINTING: ONE COLOR TWO COLORS	
REDUCER OIL D40 D57	
VEE ATTACHMENT TO PULL ONE WELL	ON REQUEST

COMPONENTS INCLUDED WITH UNIT
2-HOLE PLAIN CRANKS
FLOOR CLEARING REDUCER SUB-BASE
WIRE LINE ASSEMBLY
BRAKE ASSEMBLY
REDUCER SHEAVE
SWING BACK MULEHEAD
WRENCH FOR WRIST PIN NUT
GROUND LUBRICATION SYSTEM
BELT GUARD

TORQUE FACTORS ON REQUEST

SUBJECT TO CHANGE WITHOUT NOTICE

AMERICAN
MFG. CO. OF TEXAS

QUALITY - SERVICE

DON & CINDY CANTRELL
3303 West Shandon
Midland, Texas 79703
Phone 697-5167

AMERICAN MFG. CO. OF TEXAS EFFECTIVE JUNE, 1959 T9D PUMPING UNIT

T9D PUMPING UNIT
MASTER WEIGHTS

UNIT DESCRIPTION		ZONE 1 (INCLUDING MAXIMUM EFFECTIVE COUNTERBALANCE AT THE POLISHED ROD AT MAXIMUM STROKE)						
MAX. STROKE, SERIES, POLISHED ROD LOAD CLASS, TWIN CRANKS, FRAME TYPE, STRUCTURE, DOUBLE REDUCTION, API SIZE REDUCER, ADJUST-ABLE CRANK		API POLISHED ROD CAPACITY (LBS.)		2-T9MW	2-T9MW 2-T9PW	4-T9MW	4-T9MW 2-T9PW	4-T9MW 4-T9PW
STANDARD	T9D34-9-D40Z	9500		4220#	4790#	5930#	6500#	7250#
STANDARD	T9D34-9-D57Z	9500		4220#	4790#	5930#	6500#	7250#
STANDARD	T9D42-9-D40Z	7480		3420#	3880#	4800#	5260#	5860#
STANDARD	T9D42-9-D57Z	7480		3420#	3880#	4800#	5260#	5860#

*WIDE FRAME UNIT	ZONE 1
ADD TO STANDARD FRAME	

ACCESSORIES	ZONE 1
MOTOR EXTENSION FOR HIGH PRIME (STUBBY)	
FRAME EXTENSION FOR SINGLE CYLINDER ENGINE OR ELECTRIC MOTOR WITH SLIDE RAILS	
FRAME EXTENSION FOR MULTI-CYLINDER ENGINE - WITH SLIDE RAILS	
FRAME EXTENSION FOR ELECTRIC MOTOR ONLY - WITH SLIDE RAILS	
FOUNDATION BOLTS, SET	
CENTERLINE BOLTING CONSISTING OF CLAMPS, FOUNDATION BOLTS, SLEEVE NUTS, STUDS, NUTS, AND WASHERS:	
LADDER WITH SAFETY RING	

ADD TO ZONE 1	
ZONE 2	
ZONE 3	
ZONE 4	
ZONE 5	

*SELECTED FRAME EXTENSION MUST ALSO BE ADDED

MISCELLANEOUS	ALL ZONES
CUSTOM PRINTING: ONE COLOR / TWO COLORS	
REDUCER OIL D40Z / D57Z	
VEE ATTACHMENT TO PULL ONE WELL	ON REQUEST

COMPONENTS INCLUDED WITH UNIT
ADJUSTABLE CRANKS AS ORDERED
CRANK WEIGHT ADJUSTING WRENCH
FLOOR CLEARING REDUCER SUB-BASE
WIRELINE ASSEMBLY
REDUCER SHEAVE
SWINGBACK MULEHEAD
BRAKE ASSEMBLY
GROUND LUBRICATION SYSTEM
WRENCH FOR WRIST PIN NUT
BELT GUARD

TORQUE FACTORS ON REQUEST

SUBJECT TO CHANGE WITHOUT NOTICE

AMERICAN
MFG. CO. OF TEXAS

QUALITY - SERVICE

DON & CINDY CANTRELL
3303 West Shandon
Midland, Texas 79703
Phone 697-5167

AMERICAN MFG. CO. OF TEXAS EFFECTIVE JUNE, 1959 T9D PUMPING UNIT

T10D PUMPING UNIT
MASTER WEIGHTS

UNIT DESCRIPTION	API POLISHED ROD CAPACITY (LBS.)	ZONE 1 (INCLUDING MAXIMUM EFFECTIVE COUNTERBALANCE AT THE POLISHED ROD AT MAXIMUM STROKE)										
MAX. STROKE / SERIES / POLISHED ROD LOAD CLASS / TWIN CRANKS / FRAME TYPE / STRUCTURE / DOUBLE REDUCTION / API SIZE REDUCER / ADJUSTABLE CRANK		2-T12MW	2-T14MW	4-T12MW	2-T12MW 2-T14MW	4-T12MW 2-T12PW	4-T14MW	2-T14MW 2-T12MW 2-T12PW	4-T12MW 4-T12PW	4-T14MW 2-T14PW	2-T12MW 2-T14MW 2-T12PW 2-T14PW	4-T14MW 4-T14PW
STANDARD T10D42-10-D57Z	10450	3110#	3550#	4590#	5030#	5340#	5470#	5780#	6090#	6330#	6640#	7190#
STANDARD T10D48-10-D57Z	9000	2720#	3100#	4020#	4400#	4670#	4780#	5050#	5330#	5540#	5810#	6290#

*WIDE FRAME UNIT	ZONE 1
ADD TO STANDARD FRAME	

ACCESSORIES	ZONE 1
MOTOR EXTENSION FOR HIGH PRIME (STUBBY)	
FRAME EXTENSION FOR SINGLE CYLINDER ENGINE OR ELECTRIC MOTOR WITH SLIDE RAILS	
NARROW EXTENSION FOR SINGLE CYLINDER ENGINE (SLIDE RAILS & ENG. SUB-BASE NOT REQ'D)	
FRAME EXTENSION FOR MULTI-CYLINDER ENGINE - WITH SLIDE RAILS	
FRAME EXTENSION FOR ELECTRIC MOTOR ONLY - WITH SLIDE RAILS	
FOUNDATION BOLTS, SET	
CENTERLINE BOLTING CONSISTING OF CLAMPS, FOUNDATION BOLTS, SLEEVE NUTS, STUDS, & NUTS, AND WASHERS:	

ADD TO ZONE 1	
ZONE 2	
ZONE 3	
ZONE 4	
ZONE 5	

*SELECTED FRAME EXTENSION MUST ALSO BE ADDED

MISCELLANEOUS	ALL ZONES
CUSTOM PAINTING: ONE COLOR / TWO COLORS	
REDUCER OIL D57	
COMBINATION BEAM & ADJ.CRANK C'BALANCE	ON REQUEST

TORQUE FACTORS ON REQUEST

SUBJECT TO CHANGE WITHOUT NOTICE

COMPONENTS INCLUDED WITH UNIT
ADJUSTABLE CRANKS AS ORDERED
CRANK WEIGHT ADJUSTING WRENCH
FLOOR CLEARING REDUCER SUB-BASE
LADDER WITH SAFETY RING
WIRE LINE ASSEMBLY
SWING-BACK MULEHEAD
BRAKE ASSEMBLY
REDUCER SHEAVE
WRENCH FOR WRIST PIN NUT
GROUND LUBRICATION SYSTEM
BELT GUARD

AMERICAN
MFG. CO. OF TEXAS

QUALITY - SERVICE

T12D PUMPING UNIT
SOLID WEIGHTS

UNIT DESCRIPTION (MAX. STROKE, SERIES, POLISHED ROD LOAD CLASS, TWIN CRANKS, FRAME TYPE; STRUCTURE, DOUBLE REDUCTION, API SIZE REDUCER, ADJUSTABLE CRANK)		API POLISHED ROD CAPACITY (LBS.)	ZONE 1 (INCLUDING MAXIMUM EFFECTIVE COUNTERBALANCE AT THE POLISHED ROD AT MAXIMUM STROKE)																	
			2-"B"	2-"D"	2-"F"	4-"B"	2-"B" 2-"D"	4-"D"	2-"D" 2-"F"	4-"F"	2-"F" 2-"H"	4-"H"	2-"H" 2-"J"	4-"J"	2-"J" 2-"L"	4-"L"	2-"L" 2-"N"	4-"N"	2-"N" 2-"P"	4-"P"
STANDARD	T12D42-12-D57Z	12,000	4310#	4810#	5260#	5820#	6320#	6830#	7280#	7730#	8110#	8500#	9010#	9530#	9900#	10280#	10920#	11560#	11920#	12290#
STANDARD	T12D48-12-D57Z	11,100	3790#	4230#	4620#	5120#	5560#	6000#	6400#	6800#	7130#	7470#	7920#	8380#	8710#	9040#	9600#	10170#	10480#	10810#
STANDARD	T12D48-12-D80Z	12,000	3790#	4230#	4620#	5120#	5560#	6000#	6400#	6800#	7130#	7470#	7920#	8380#	8710#	9040#	9600#	10170#	10480#	10810#
STANDARD	T12D54-12-D80Z	11,100	3330#	3720#	4060#	4500#	4890#	5280#	5630#	5980#	6270#	6570#	6960#	7370#	7660#	7950#	8450#	8940#	9220#	9510#

*WIDE FRAME UNIT	ZONE 1
ADD TO STANDARD FRAME	

ACCESSORIES	ZONE 1
MOTOR EXTENSION FOR HIGH PRIME (STUBBY)	
FRAME EXTENSION FOR SINGLE CYLINDER ENGINE OR ELECTRIC MOTOR WITH SLIDE RAILS	
NARROW EXTENSION FOR SINGLE CYLINDER ENGINE (SLIDE RAILS & ENG. SUB-BASE NOT REQ'D)	
FRAME EXTENSION FOR MULTI-CYLINDER ENGINE - WITH SLIDE RAILS	
FRAME EXTENSION FOR ELECTRIC MOTOR ONLY - WITH SLIDE RAILS	
FOUNDATION BOLTS, SET	
CENTERLINE BOLTING CONSISTING OF CLAMPS, FOUNDATION BOLTS, SLEEVE NUTS, STUDS, NUTS, AND WASHERS:	

ADD TO ZONE 1	
ZONE 2	
ZONE 3	
ZONE 4	
ZONE 5	

*SELECTED FRAME EXTENSION MUST ALSO BE ADDED

MISCELLANEOUS	ALL ZONES
CUSTOM PAINTING: ONE COLOR TWO COLORS	
REDUCER OIL D57 D80	
COMBINATION BEAM & ADJ.CRANK C'BALANCE	ON REQUEST

COMPONENTS INCLUDED WITH UNIT
ADJUSTABLE CRANKS AS ORDERED
CRANK WEIGHT ADJUSTING WRENCH
FLOOR CLEARING REDUCER SUB-BASE
WIRELINE ASSEMBLY
REDUCER SHEAVE
SWINGBACK MULEHEAD
BRAKE ASSEMBLY
GROUND LUBRICATION SYSTEM
WRENCH FOR WRIST PIN NUT
LADDER WITH SAFETY RING
BELT GUARD

TORQUE FACTORS ON REQUEST

SUBJECT TO CHANGE WITHOUT NOTICE

AMERICAN
MFG. CO. OF TEXAS

QUALITY - SERVICE

AMERICAN COUNTERBALANCE CRANKS

All sizes of American Pumping Units from the T12 to the T27 are available with the adjustable counterbalance crank. The famous American quality has been improved by the addition of this crank.

One man can easily adjust the pumping unit counterbalance by simply loosening two clamping bolts that hold each master weight in position, and turning the large adjusting screw that moves the master weight to the desired position on the crank. The adjusting screw has an acme thread and is electroplated to prevent rusting. This screw should not be lubricated as the electroplating will prevent galling of the threads.

The adjusting screw provides a safe and easy method of adjusting the counterbalance. The master weights can not come off unless the nuts on the clamping bolts are completely removed. The adjusting screws are turned by means of a crank type wrench that is furnished with each pumping unit. The wrench fits the nut on the end of the adjusting screw near the reducer low speed shaft. After the adjustment has been made, the clamping bolts are tightened to lock the master weights in position. The wrench fits the adjusting screws and clamping bolts.

Each master weight is made so that a pocket weight can be added to give maximum counterbalance. The master weights alone provide sufficient counterbalance for the average well conditions, thus saving the purchase of maximum counterbalance when it is not required. If the standard master weights with pocket weights for a particular pumping unit do not give sufficient counterbalance, the master weights with pocket weights from a larger size pumping unit can be substituted.

The correct counterbalance of the pumping unit is very important, as it keeps the horsepower requirement of the reducer and prime mover at a minimum, thus assuring peak performance and maximum life.

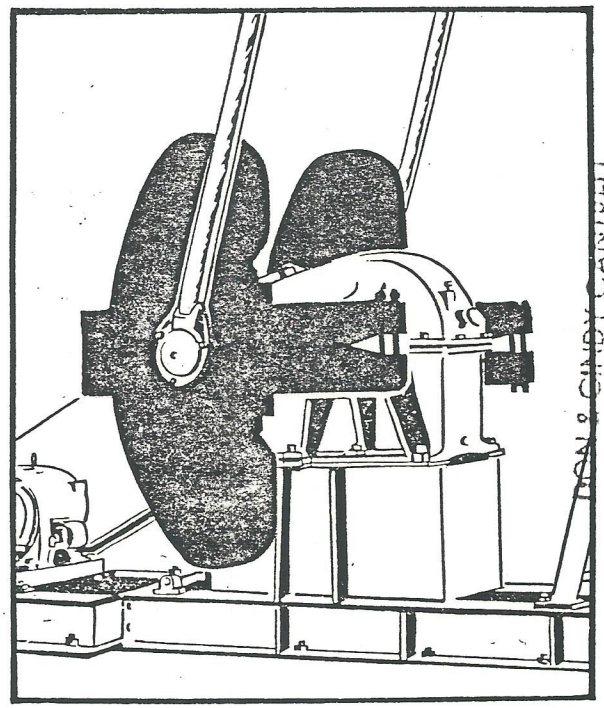


Fig. 1

SPECIFICATIONS

PUMPING UNIT STRUCTURE REDUCER	A.P.I. Walking Beam Capacity (Lbs.)	A.P.I. Peak Torque (In. Lbs.)	Reducer Gear Ratio	Polished Rod Stroke (In.)	Well End Working Center (In.)	Height Bottom Frame to Saddle Brg. (In.)	Beam Size (In. & Lbs.)	Max. Counterbalance at Max. Stroke with Adjustable Cranks less pocket wts. (Lbs.)	Max. Counterbalance at Max. Stroke with Adjustable Cranks with pocket wts. (Lbs.)	Max. Counterbalance at Max. Stroke with Leaf-Type Crank (Lbs.)
T5-D18	5500	19,200	30.0:1	17¾, 20, 24	36	61	10 x 5¾—21			†3900
T7-D25	7500	26,600	29.8:1	19¾, 21¾, 24½, 28	42	76	12 x 6½—27			†4600
T9-D40	9500	40,300	27.7:1	20, 27, 34	51	91	14 x 6¾—34			†6700
T9-D57A	9500	57,000	30.0:1	22, 32, 42	51	91	14 x 6¾—34			†6600
T9-S38	9500	38,400	12.0:1	20, 27, 34	51	91	14 x 6¾—34			†6700
T12-D57	12,000	57,000	30.0:1	22, 32, 42	66	111	18 x 7½—50	5800	* 7700	7900
T12-D80	12,000	82,300	29.9:1	28, 38, 48	66	111	18 x 7½—50	5100	* 6800	8100
T12-S54	12,000	53,700	12.7:1	22, 32, 42	66	111	18 x 7½—50	5800	* 7700	7900
T12-S77	12,000	77,800	12.1:1	28, 38, 48	66	111	18 x 7½—50	5100	* 6800	8100
T14-D114	14,000	114,000	30.6:1	28, 38, 48	69	120	18 x 7½—60	7100	* 9800	9700
T17-D114	17,300	114,000	30.6:1	24, 34, 44, 54	81	128	21 x 8¼—73	8400	*12,100	12,600
T17-D160	17,300	161,300	29.0:1	24, 34, 44, 54	81	128	21 x 8¼—73	8400	*12,100	12,600
T20-D160	20,000	161,300	29.0:1	34, 44, 54, 64	96	166	24 x 9 —94	9600	*14,400	15,100
T20-D228	20,000	228,600	30.0:1	34, 44, 54, 64	96	166	24 x 9 —94	9600	*14,400	15,100
T27-D228	27,000	228,600	30.0:1	44, 54, 64, 74	129	191	27 x 14 —145	12,700	20,100	20,800
T27-D320	27,000	321,700	30.3:1	44, 54, 64, 74, 84	129	191	27 x 14 —145	13,400	21,000	19,700

*Larger Master Weights can be substituted where greater counterbalance is required. †Beam Type counterbalance or Beam and Rotary Combination.

UNIT DESIGNATIONS—Unit and reducer names designate their type and capacity. For example, the T9-D40 Pumping Unit: The structure, T9, designates a twin crank unit with 9,000 lbs. walking beam capacity; the reducer, D40, designates a double reduction reducer with 40,000 inch-pounds peak torque capacity. Single reduction reducers are designated by the prefix letter "S" instead of "D".

AMERICAN PUMPING UNITS

American Pumping Units are designed to give greater economy through longer service with less servicing. The structures and reducers conform to A. P. I. Specifications. They have been designed for a range of pumping speeds and stroke lengths to meet the requirements of modern pumping service.

American Pumping Units are available in many combinations of structure and reducer sizes as listed in the specification chart.

Frames and Samson Posts are electric welded structural steel construction. The frames are made of deep structural steel members for rigidity and to facilitate field transportation. Bolted-on frame extension accommodates the various types of prime movers. Samson posts are of the four-legged derrick type with widely spaced front legs. The Samson Post top is line bored to hold the Saddle Bearing housings in alignment.

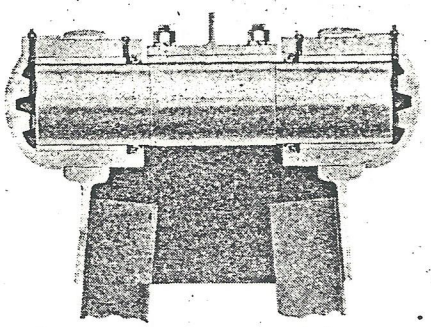


Fig. 2

Walking beams of wide flange beam sections are carried on widely spaced saddles equipped with Bronze Bushings. The Saddle Bearings (fig. 2) are fully enclosed in semi-steel housings. Set screws provide a quick, accurate means of adjusting the walking beam toward and from the well center.

Arc Type hangers can be easily removed from the beam, to give ample well servicing clearance.

Equalizer is of welded construction and is attached to the flange of the walking beam through the Equalizer Bearing Assembly (fig. 3). The bearing assembly is equipped with two Bronze Bushings which are fully enclosed.

Pitmans are made of seamless pipe, welded at each end to steel fittings. The lower fitting is a banjo-type and has a tapered bore that fits a tapered turned section on the wrist pin bearing housing. Three capscrews hold the banjo in place.

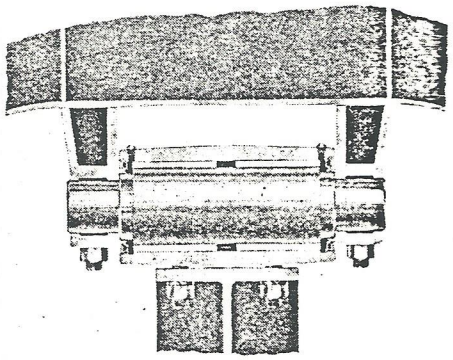


Fig. 3

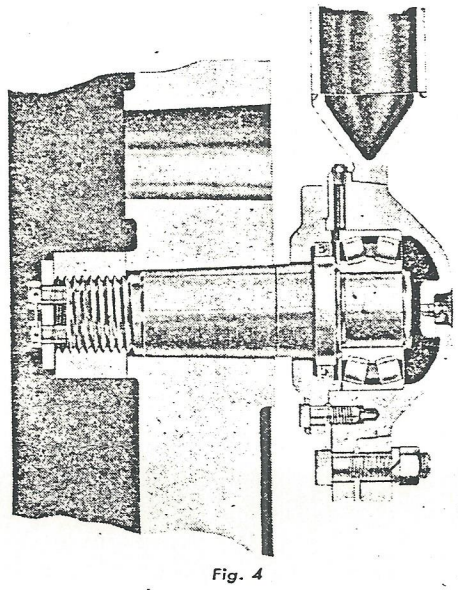


Fig. 4

Wrist Pin Bearings (fig. 4) are of the self aligning spherical roller type and are fully enclosed in bearing housings. The tapered wrist pins are keyed to the cranks and locked in place with special lock nuts.

Safety features such as an efficient band type brake (see fig. 7), remote control lever, and Samson Post Ladder with safety loop are standard equipment on most units. Belt guards can be furnished on order.

REDUCERS AND BRAKES

American Speed Reducers are especially designed for oil field pumping service and conform to A. P. I. Specifications. They have long been known for giving many years of trouble-free service.

Double Reduction Reducers (fig. 5) are best suited for use with electric motors and multi-cylinder engines.

Single Reduction Reducers (fig. 6) are ideal for use with the increasingly popular single-cylinder engine when slow or medium pumping speeds are desired.

Both types of reducers have fully heat-treated herringbone gears and pinions which provide long, trouble-free service. The gears and pinions are lapped at assembly to provide smooth, quiet operation.

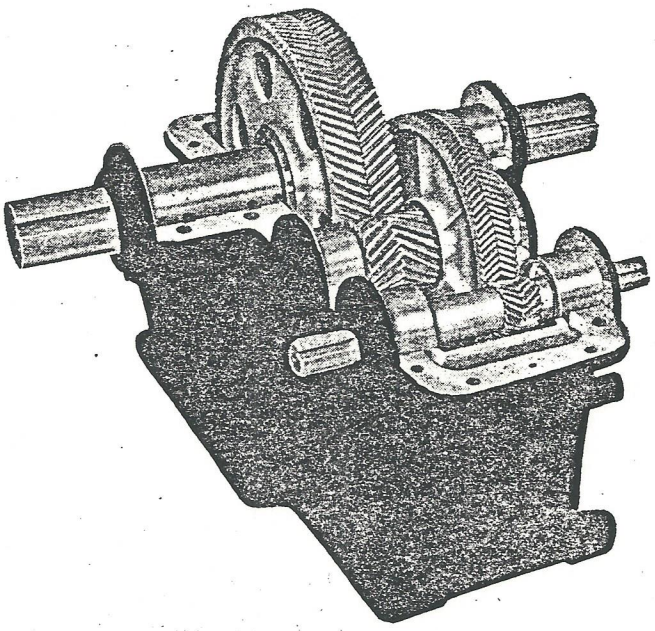


Fig. 5

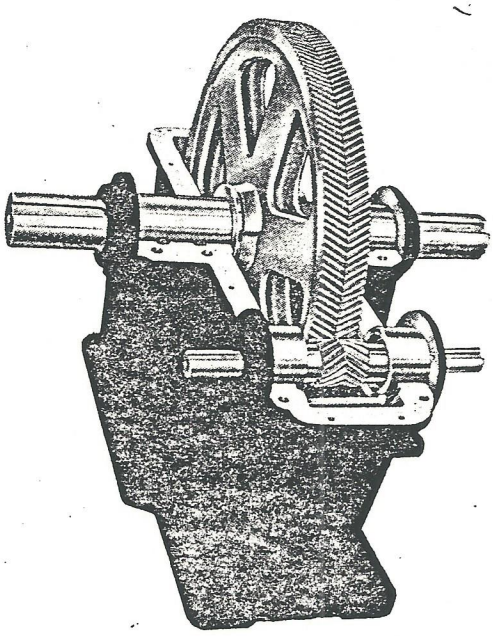


Fig. 6

Gear cases larger than the D57A are split through the bearing centerline, and have long bronze bushings on the slow speed shaft. The D57A and smaller reducers have tapered roller bearings on the slow speed shaft. The high and intermediate speed shafts have Hyatt Hy-load roller bearings. All shafts except the slow speed shaft are free to float to equalize the gear train.

A system of oil troughs and pockets fed by oil wipers gives positive bearing lubrication at all speeds. A controlled oil level at all bearings assures proper lubrication at all times.

Several sizes of reducers are interchangeable on some unit structures.

All reducers are equipped with a band-type trouble-free brake (fig. 7) which assures positive stop in any crank position. A ratchet type remote control lever provides a quick, safe means of holding the cranks in the desired position. The remote control lever is mounted on the end of the frame extension convenient to the prime mover clutch.

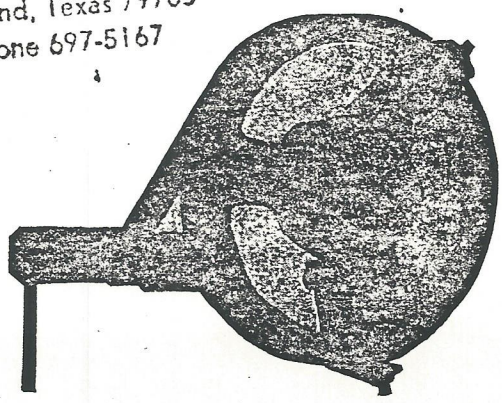


Fig. 7

AMERICAN MANUFACTURING COMPANY OF TEXAS

AMGOT

UNIT T5-D18 T7-D25

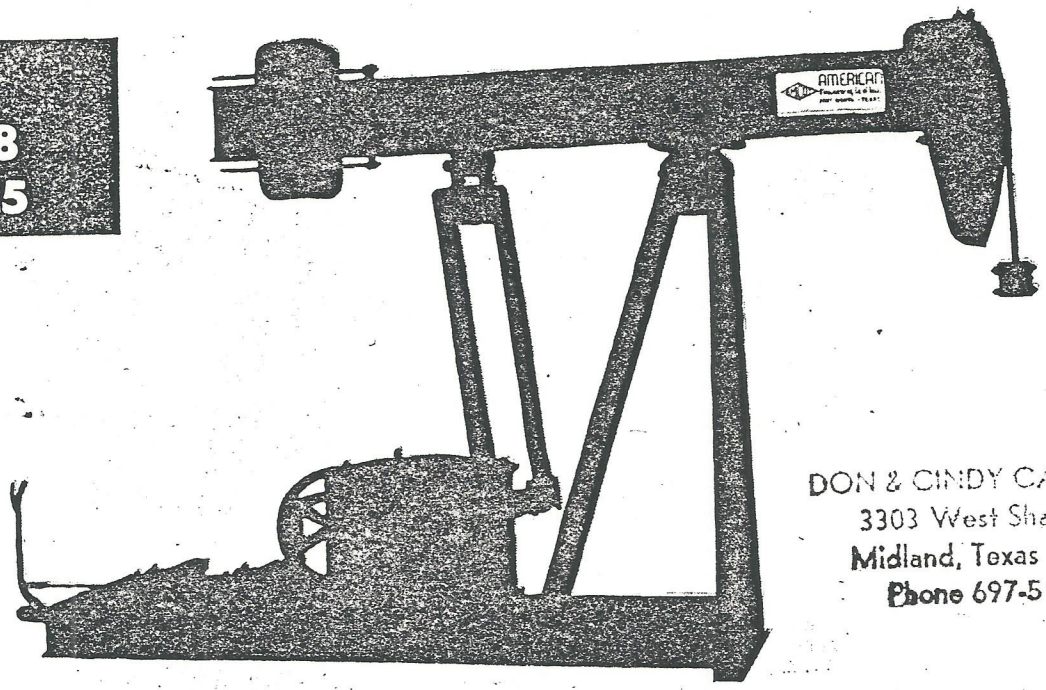


Fig. 8

STRUCTURE SPECIFICATIONS T5-D18

API Walking Beam Capacity	5,500 Lbs.
Beam Size and Weight	10" x 5¾" C.B. @ 21#
Polished Rod Stroke	17¾", 20", 24"
Working Centers—Well End	36"
Pitman End	31" Min.; 41¼" Max.
Wire Line Size	⅝"
Wrist Pin Bearing—Type	Spherical Roller
Saddle Assembly—No. & Type Bearing	2—Bronze
Equalizer Assembly—No. & Type Bearing	2—Bronze
Crank—Type	Plain—One Hole
Foundation Bolts—No. & Size (with extension)	10—¾"

STRUCTURE SPECIFICATIONS T7-D25

API Walking Beam Capacity	7,500 Lbs.
Beam Size and Weight	12" x 6½" C.B. @ 27#
Polished Rod Stroke	19¾", 21¾", 24½", 28"
Working Centers—Well End	42"
Pitman End	36⅞" Min.; 52¼" Max.
Wire Line Size	¾"
Wrist Pin Bearing—Type	Spherical Roller
Saddle Assembly—No. & Type Bearing	2—Bronze
Equalizer Assembly—No. & Type Bearing	2—Bronze
Crank—Type	Plain—One Hole
Foundation Bolts—No. & Size (with extension)	10—⅞"

REDUCER SPECIFICATIONS T5-D18

API Peak Torque @ 20 SPM	19,200 In. Lbs.
Nominal H.P. @ 20 SPM	3.6
Gear Ratio (Double Reduction)	30.0:1
Type Gear	Herringbone
Slow Speed Shaft—Diameter at Crank	3.000"
Crank Key	¾" x ¾"
Type Bearing	Tapered Roller
Intermediate Speed Shaft—Type Bearing	Straight Roller
High Speed Shaft—Diameter at Extension	1.125"
Sheave Key	¼" x ¼"
Type Bearing	Straight Roller
"V" Belt Sheave—Standard	18" P.D. 3B

REDUCER SPECIFICATIONS T7-D25

API Peak Torque @ 20 SPM	26,600 In. Lbs.
Nominal H.P. @ 20 SPM	5.1
Gear Ratio (Double Reduction)	29.8:1
Type Gear	Herringbone
Slow Speed Shaft—Diameter at Crank	3.375"
Crank Key	⅞" x ⅛"
Type Bearing	Tapered Roller
Intermediate Speed Shaft—Type Bearing	Straight Roller
High Speed Shaft—Diameter at Extension	1.250"
Sheave Key	⅝" x ⅛"
Type Bearing	Straight Roller
"V" Belt Sheave—Standard	18" P.D. 3B

WEIGHT OF T5-D18 PUMPING UNIT
COMPLETE WITH WIRE LINE CABLE AND POLISHED ROD GRIP

With Straight Frame	1,360#
With Side Extension for Multi-Cylinder Engine	1,410#

WEIGHT OF T7-D25 PUMPING UNIT
COMPLETE WITH WIRE LINE CABLE AND POLISHED ROD GRIP

With Straight Frame	1,910#
With Side Extension for Multi-Cylinder Engine	1,970#

COUNTERBALANCE DATA T5-D18

No. Of Beam Weights (120# Each)	Total Ctr. Bal. Effect at Polished Rod (Lbs.)
Unbalance of Unit	180
1	410
3	860
5	1290
7	1710
9	2110
11	2500
13	2880
15	3250
17	3600
19	3930

COUNTERBALANCE DATA T7-D25

No. Of Beam Weights (120# Each)	Total Ctr. Bal. Effect at Polished Rod (Lbs.)
Unbalance of Unit	240
2	690
4	1140
6	1570
8	2000
10	2410
12	2800
14	3190
16	3560
18	3950
20	4280
22	4620

AMERICAN MANUFACTURING COMPANY OF TEXAS

UNIT T9-D40

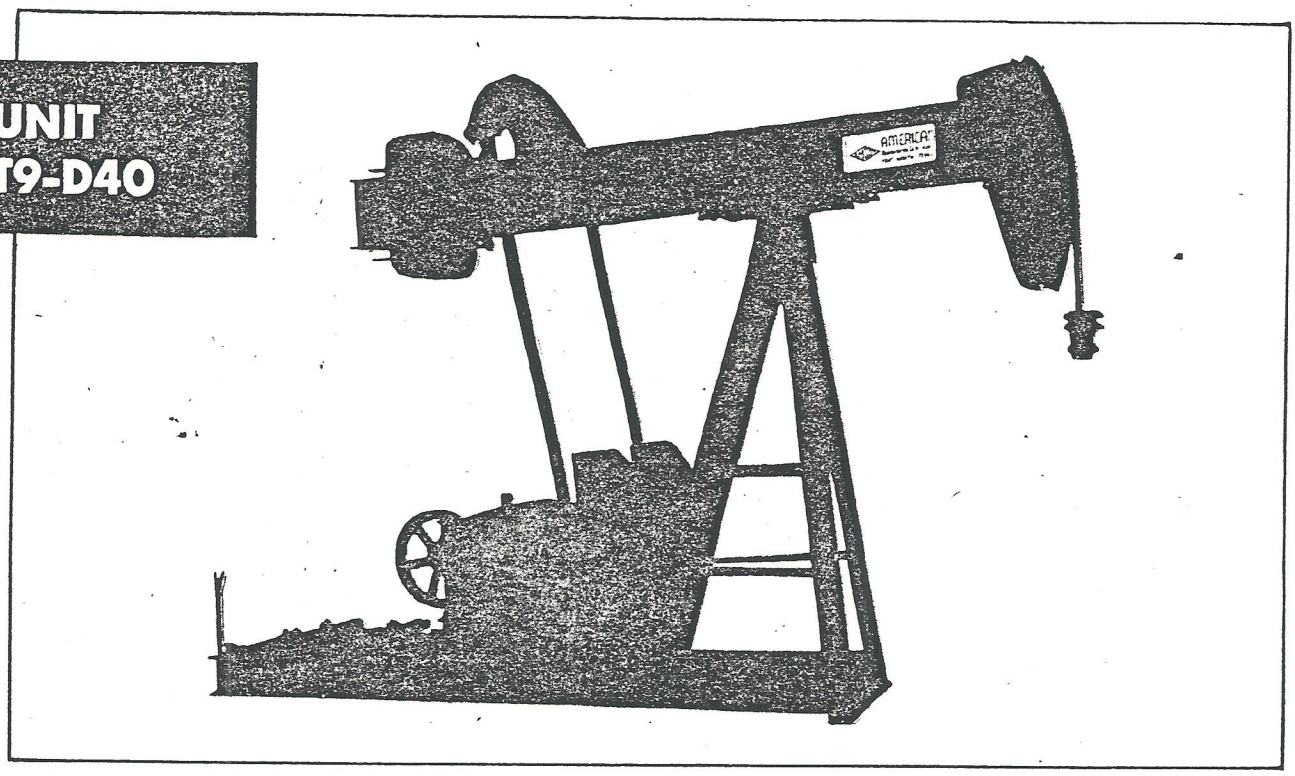


Fig. 9

STRUCTURE SPECIFICATIONS T9-D40

API Walking Beam Capacity	9,500 Lbs.
Beam Size and Weight	14" x 6¾" C.B. @ 34#
Polished Rod Stroke	20", 27", 34"
Working Centers—Well End	51"
Pitman End	51"
Wire Line Size	⅞"
Wrist Pin Bearing—Type	Spherical Roller
Saddle Assembly—No. & Type Bearing	2—Bronze
Equalizer Assembly—No. & Type Bearing	2—Bronze
Crank—Type	Counter Weight
Foundation Bolts—No. & Size (with extension)	12—⅞"

REDUCER SPECIFICATIONS T9-D40

API Peak Torque @ 20 SPM	40,300 In. Lbs.
Nominal H.P. @ 20 SPM	8.1
Gear Ratio (Double Reduction)	27.7:1
Type Gear	Herringbone
Slow Speed Shaft—Diameter at Crank	3.495"
Crank Key	⅞" x ⅞"
Type Bearing	Tapered Roller
Intermediate Speed Shaft—Type Bearing	Straight Roller
High Speed Shaft—Diameter at Extension	1.500"
Sheave Key	⅜" x ⅜"
Type Bearing	Straight Roller
"V" Belt Sheave—Standard	18" P.D. 4B

WEIGHT OF T9-D40 PUMPING UNIT

COMPLETE WITH REDUCER SUB-BASE, CRANK WEIGHTS, WIRE LINE CABLE AND POLISHED ROD GRIP.

With Short Base	4,360#
With Multi-Cylinder Engine Extension	4,585#
With Single-Cylinder Engine and Electric Motor Extension	4,590#

COUNTERBALANCE DATA T9-D40

Number of Weights	Total Counterbalance Effect at Polished Rod (Lbs.)		
	20" Stroke	27" Stroke	34" Stroke
Cranks Only	860	730	650
Cranks and Crank Weights	3300	2540	2090
1 Beam Weight	3530	2770	2320
3	3980	3220	2770
5	4420	3660	3220
7	4860	4100	3650
9	5280	4510	4070
11	5690	4930	4480
13	6090	5330	4880
15	6490	5720	5270
17	6860	6100	5660
19		6470	6020
21		6830	6380
23			6730

AMERICAN MANUFACTURING COMPANY OF TEXAS

UNIT T9-D57A

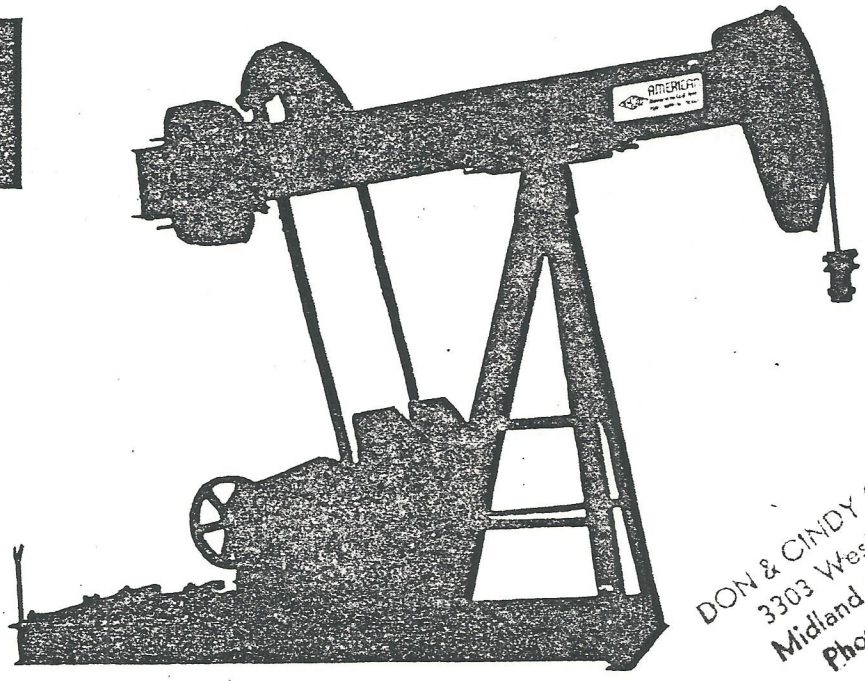


Fig. 10

STRUCTURE SPECIFICATIONS T9-D57A

API Walking Beam Capacity	9,500 Lbs.
Beam Size and Weight	14″ x 6¾″ C.B. @ 34#
Polished Rod Stroke	22″, 32″, 42″
Working Centers—Well End	51″
Pitman End	51″
Wire Line Size	⅞″
Wrist Pin Bearing—Type	Spherical Roller
Saddle Assembly—No. & Type Bearing	2—Bronze
Equalizer Assembly—No. & Type Bearing	2—Bronze
Crank—Type	Counter Weight
Foundation Bolts—No. & Size (with extension)	12—⅞″

REDUCER SPECIFICATIONS T9-D57A

API Peak Torque @ 20 SPM	57,000 In. Lbs.
Nominal H.P. @ 20 SPM	11.5
Gear Ratio (Double Reduction)	30.0:1
Type Gear	Herringbone
Slow Speed Shaft—Diameter at Crank	4.370″
Crank Key	1¼″ x 1¼″
Type Bearing	Tapered Roller
Intermediate Speed Shaft—Type Bearing	Straight Roller
High Speed Shaft—Diameter at Extension	1.8125″
Sheave Key	½″ x ½″
Type Bearing	Straight Roller
"V" Belt Sheave—Standard	22″ P.D. 3G
Optional	18″ P.D. 3G

WEIGHT OF T9-D57A PUMPING UNIT

COMPLETE WITH REDUCER SUB-BASE, CRANK WEIGHTS, WIRE LINE CABLE AND POLISHED ROD GRIP.

With Short Base	4,720#
With Multi-Cylinder Engine Extension	4,945#
With Single-Cylinder Engine and Electric Motor Extension	4,950#

COUNTERBALANCE DATA T9-D57A

Number of Weights	Total Counterbalance Effect at Polished Rod (Lbs.)		
	22″ Stroke	32″ Stroke	42″ Stroke
Cranks Only	920	740	650
Cranks and Crank Weights	3450	2480	1980
1 Beam Weight	3680	2720	2210
3	4140	3170	2660
5	4580	3610	3100
7	5010	4040	3540
9	5440	4470	3960
11	5850	4880	4370
13	6250	5280	4770
15	6640	5670	5160
17		6050	5540
19		6410	5910
21		6780	6270
23			6620

AMERICAN MANUFACTURING COMPANY OF TEXAS

UNIT T12-D57

DON & CINDY CANTRELL
3303 West Shandon
Midland, Texas 79703
Phone 697-5167

Fig. 11

STRUCTURE SPECIFICATIONS T12-D57

API Walking Beam Capacity	12,000 Lbs.
Beam Size and Weight	18″ x 7½″ C.B. @ 50#
Polished Rod Stroke	22″, 32″, 42″
Working Centers—Well End	66″
Pitman End	66″
Wire Line Size	⅞″
Wrist Pin Bearing—Type	Spherical Roller
Saddle Assembly—No. & Type Bearing	2—Bronze
Equalizer Assembly—No. & Type Bearing	2—Bronze
Crank—Types	Adjustable Counterweight Leaf-Type Counterweight
Foundation Bolts—No. & Size (with extension)	14—1″

REDUCER SPECIFICATIONS T12-D57

API Peak Torque @ 20 SPM	57,000 In. Lbs.
Nominal H.P. @ 20 SPM	11.5
Gear Ratio (Double Reduction)	30.0:1
Type Gear	Herringbone
Slow Speed Shaft—Diameter at Crank	4.500″
Crank Key	1¼″ x 1¼″
Type Bearing	Bronze
Intermediate Speed Shaft—Type Bearing	Straight Roller
High Speed Shaft—Diameter at Extension	1.8125″
Sheave Key	½″ x ½″
Type Bearing	Straight Roller
"V" Belt Sheave—Standard	24″ P.D. 3C
Optional	18″ P.D. 3C

WEIGHT OF T12-D57 PUMPING UNIT

COMPLETE WITH FLOOR CLEARING SUB-BASE, LADDER, ADJUSTABLE COUNTERWEIGHT CRANKS WITH MASTER WEIGHTS, WIRE LINE CABLE, AND POLISHED ROD GRIP.

With Short Base	9,900#
With Multi-Cylinder Engine Extension	10,240#
With Single-Cylinder Engine and Electric Motor Extension	10,260#
For Leaf-Type Counterweight Cranks, Subtract from each of the above weights	2,390#

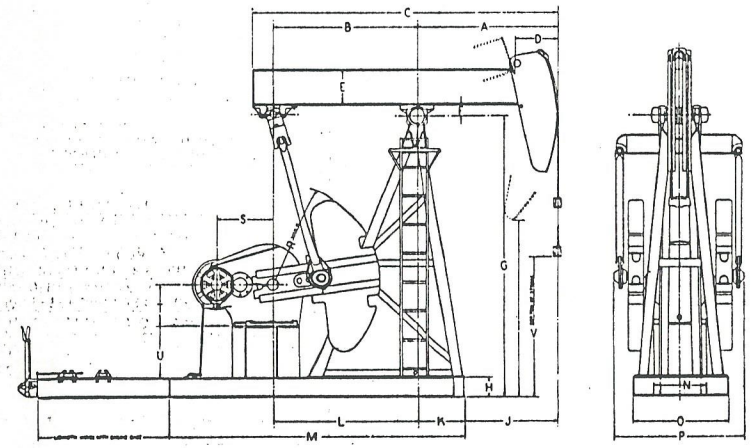
COUNTERBALANCE DATA — LEAF-TYPE CRANK T12-D57

Number of Weights	Total Counterbalance Effect at Polished Rod (Lbs.)		
	22″ Stroke	32″ Stroke	42″ Stroke
Cranks Only	2090	1530	1240
Cranks and Master Weights	3810	2720	2140
4	4670	3300	2590
8	5580	3930	3070
12	6550	4600	3570
16	7570	5300	4110
20	8650	6040	4670
24		6820	5270
28		7640	5890
32		8500	6540
36			7220
40			7940

COUNTERBALANCE DATA — ADJUSTABLE CRANK T12-D57

Max. counterbalance at Max. Stroke with Adjustable Cranks less pocket weights (lbs.)	5800
Max. counterbalance at Max. Stroke with Adjustable Cranks with pocket weights (lbs.)	7700

T15F UNIT SPECIFICATIONS



MAXIMUM STROKE
SERIES
POLISHED ROD LOAD CLASS
TWIN CRANK
STRUCTURE
DOUBLE REDUCTION
A.P.I. REDUCER SIZE
ADJUSTABLE COUNTERBALANCE

T15F48-15-D80Z

BEARING SPECIFICATIONS					
WRIST PIN		SADDLE		EQUALIZER	
PIN DIA. AT CRANK	3.002"	SHAFT DIA.	5 1/4"	SHAFT DIA.	3 1/2"
TAPER PER FOOT	3/4"	BUSHING MAT'L	BRONZE	BUSHING MAT'L	BRONZE
TYPE BEARING	SPHERICAL ROLLER	PROJECTED AREA	76.125 SQ. IN.	PROJECTED AREA	36.0 SQ.IN.
MIN. B-10 LIFE	100,000 HR.	UNIT LOADING	425 PSI	UNIT LOADING	488 PSI
TYPE LUBRICANT	GREASE	TYPE LUBRICANT	GREASE	TYPE LUBRICANT	GREASE

UNIT DESCRIPTION	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	R	S	T	U	V
T15F48-15-D80Z	72"	72"	12'-10 1/8"	20 3/16"	18"	5 1/4"	11'-7 7/8"	12"	7'-10"	47 5/8"	24 3/8"	72"	12'-3 3/4"	27"	48"	57 5/8"	53"	25 1/2"	16"	28 3/4"	5'-2 1/2"
T15F48-15-D114Z	72"	72"	12'-10 1/8"	20 3/16"	18"	5 1/4"	11'-7 7/8"	12"	7'-10"	47 5/8"	24 3/8"	72"	12'-3 3/4"	27"	48"	64 5/8"	53"	27 3/4"	20"	24 3/4"	5'-2 1/2"
T15F48-15-D160Z	72"	72"	12'-10 1/8"	20 3/16"	18"	5 1/4"	11'-7 7/8"	12"	7'-10"	47 5/8"	24 3/8"	72"	12'-3 3/4"	27"	48"	64 5/8"	53"	30 3/16"	20"	24 3/4"	5'-2 1/2"
T15F54-15-D80Z	72"	72"	12'-10 1/8"	20 13/16"	18"	5 1/4"	11'-7 7/8"	12"	7'-5"	47 5/8"	24 3/8"	72"	12'-3 3/4"	27"	48"	57 5/8"	58"	25 1/2"	16"	33 3/4"	5'-2 1/2"
T15F54-15-D114Z	72"	72"	12'-10 1/8"	20 13/16"	18"	5 1/4"	11'-7 7/8"	12"	7'-5"	47 5/8"	24 3/8"	72"	12'-3 3/4"	27"	48"	64 5/8"	58"	27 3/4"	20"	29 3/4"	5'-2 1/2"
T15F54-15-D160Z	72"	72"	12'-10 1/8"	20 13/16"	18"	5 1/4"	11'-7 7/8"	12"	7'-5"	47 5/8"	24 3/8"	72"	12'-3 3/4"	27"	48"	64 5/8"	58"	30 3/16"	20"	29 3/4"	5'-2 1/2"
T15F64-15-D80Z	8'-0"	8'-0"	16'-10 1/8"	21 1/8"	24"	5 1/4"	14'-1"	12"	8'-11"	67 1/8"	28 7/8"	8'-0"	14'-8 3/8"	27"	54"	57 5/8"	65 1/2"	25 1/2"	16"	40"	6'-3 1/2"
T15F64-15-D114Z	8'-0"	8'-0"	16'-10 1/8"	21 1/8"	24"	5 1/4"	14'-1"	12"	8'-11"	67 1/8"	28 7/8"	8'-0"	14'-8 3/8"	27"	54"	64 5/8"	65 1/2"	27 3/4"	20"	36"	6'-3 1/2"
T15F64-15-D160Z	8'-0"	8'-0"	16'-10 1/8"	21 1/8"	24"	5 1/4"	14'-1"	12"	8'-11"	67 1/8"	28 7/8"	8'-0"	14'-8 3/8"	27"	54"	64 5/8"	65 1/2"	30 3/16"	20"	36"	6'-3 1/2"
T15F64-15-D228Z	8'-0"	8'-0"	16'-10 1/8"	21 1/8"	24"	5 1/4"	14'-1"	12"	8'-11"	67 1/8"	28 7/8"	8'-0"	14'-8 3/8"	27"	54"	73 5/8"	65 1/2"	33 5/16"	24"	32"	6'-3 1/2"

WALKING BEAM			
	T15F48	T15F54	T15F64
A.P.I. POLISHED ROD CAP.	15,000	15,000	15,000
POLISHED ROD STROKES	48-38-28	54-44-34-24	64-54-44-34
BEAM SIZE AND WEIGHT	18" X 8¾" ø 64#	18" X 8¾" ø 64#	24" X 9" ø 76#
LONGITUDINAL ADJUST.	2 5/8"	2 5/8"	2 5/8"
LATERAL ADJUSTMENT	13/16"	13/16"	13/16"

PITMAN	
SIZE AND TYPE	3" STD. PIPE (GRADE "B" SEAMLESS)
PITMAN LENGTH TO CRANK RATIO	
T15F48	3.588:1
T15F54	2.993:1
T15F64	3.252:1

EQUALIZER BEAM	
SIZE AND WEIGHT	10" X 8" ø 33#

SAMPSON POST			
TYPE	4 LEG DERRICK		
SIZE LEGS - FRONT	5" X 5" X 3/8" ANGLE		
REAR	5" X 3 1/2" X 3/8" ANGLE		
SIZE BRACES	3" X 3 1/2" X 1/4" ANGLE		
HEIGHT - FDN. TO BRG.	T15F48 11'-7 7/8"	T15F54 11'-7 7/8"	T15F64
ATTACHMENT TO FRAME	BOLTED		

FRAME	
SIZE AND WEIGHT	12" X 6 1/2" ø 27#

MULEHEAD	
TYPE	SELF-ALIGNING, SWINGBACK ADJUSTABLE & REMOVABLE
SIZE WIRELINE	7/8" (6 X 25 TYPE W)

DON & CINDY CANTRELL
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Midland, Texas 79703
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AMERICAN

MFG. CO. OF. TEXAS

AMCOT

QUALITY - SERVICE

REDUCER SPECIFICATIONS ON REQUEST

TORQUE FACTORS ON REQUEST

SUBJECT TO CHANGE WITHOUT NOTICE

SPECIFICATIONS T15F

T15F SPECS.

SPECIFICATIONS

T15F PUMPING UNIT

SOLID WEIGHTS

UNIT DESCRIPTION (MAX. STROKE, SERIES, POLISHED ROD LOAD CLASS, TWIN CRANKS, FRAME TYPE, STRUCTURE, DOUBLE REDUCTION, API SIZE REDUCER ADJUSTABLE CRANK)		API POLISHED ROD CAPACITY (LBS)	ZONE 1 (INCLUDING MAXIMUM EFFECTIVE COUNTERBALANCE AT THE POLISHED ROD AT MAXIMUM STROKE)																
			2-B	2-D	2-F	4-B	2-B 2-D	4-D	2-D 2-F	4-F	2-F 2-H	4-H	2-H 2-J	4-J	2-J 2-L	4-L	2-L 2-N	4-N	2-N 2-P	4-P
STANDARD	T15F48-15-D80Z	150OC	4710#	5190#	5630#	6140#	6620#	7090#	7530#	7970#	8350#	8720#	9230#	9730#	10160#	10580#	11170#	11770#	12210#	12650#
STANDARD	T15F48-15-D114Z	150OC	4710#	5190#	5630#	6140#	6620#	7090#	7530#	7970#	8350#	8720#	9230#	9730#	10160#	10580#	11170#	11770#	12210#	12650#
STANDARD	T15F48-15-D160Z	150OC	4710#	5190#	5630#	6140#	6620#	7090#	7530#	7970#	8350#	8720#	9230#	9730#	10160#	10580#	11170#	11770#	12210#	12650#
STANDARD	T15F54-15-D80Z	150OC	5200#	5690#	6150#	6640#	7130#	7620#	8080#	8540#	8940#	9340#	9870#	10400#	10790#	11190#	11910#	12630#	13100#	13570#
STANDARD	T15F54-15-D114Z	150OC	5200#	5690#	6150#	6640#	7130#	7620#	8080#	8540#	8940#	9340#	9870#	10400#	10790#	11190#	11910#	12630#	13100#	13570#
STANDARD	T15F54-15-D160Z	150OC	5200#	5690#	6150#	6640#	7130#	7620#	8080#	8540#	8940#	9340#	9870#	10400#	10790#	11190#	11910#	12630#	13100#	13570#
STANDARD	T15F64-15-D80Z	150OC	5780#	6240#	6490#	7130#	7590#	8060#	8300#	8550#	9140#	9740#	10360#	10980#	11270#	11570#	12310#	13050#	13520#	13990#
STANDARD	T 15F64-15-D114Z	150OC	5780#	6240#	6490#	7130#	7590#	8060#	8300#	8550#	9140#	9740#	10360#	10980#	11270#	11570#	12310#	13050#	13520#	13990#
STANDARD	T15F64-15-D160Z	150OC	5780#	6240#	6490#	7130#	7590#	8060#	8300#	8550#	9140#	9740#	10360#	10980#	11270#	11570#	12310#	13050#	13520#	13990#
STANDARD	T15F64-15-D228Z	150OC	5780#	6240#	6490#	7130#	7590#	8060#	8300#	8550#	9140#	9740#	10360#	10980#	11270#	11570#	12310#	13050#	13520#	13990#
STANDARD	T15F74-15-D160Z																			
STANDARD	T15F74-15-D228Z																			

*WIDE FRAME UNIT	ZONE 1
ADD TO STANDARD FRAME	

ACCESSORIES	ZONE 1
MOTOR EXTENSION FOR HIGH PRIME (STUBBY)	
FRAME EXTENSION FOR SINGLE CYLINDER ENGINE OR ELECTRIC MOTOR WITH SLIDE RAILS	
NARROW EXTENSION FOR SINGLE CYLINDER ENGINE (SLIDE RAILS & ENG. SUB-BASE NOT REQ'D	
FRAME EXTENSION FOR MULTI-CYLINDER ENGINE - WITH SLIDE RAILS	
FRAME EXTENSION FOR ELECTRIC MOTOR ONLY - WITH SLIDE RAILS	
FOUNDATION BOLTS, SET	
CENTERLINE BOLTING CONSISTING OF CLAMPS, FOUNDATION BOLTS, SLEEVE NUTS, STUDS, NUTS, AND WASHERS:	

ADD TO ZONE 1	
ZONE 2	
ZONE 3	
ZONE 4	
ZONE 5	

*SELECTED FRAME EXTENSION MUST ALSO BE ADDED

MISCELLANEOUS	ALL ZONES
CUSTOM PAINTING: ONE COLOR TWO COLORS	
REDUCER OIL D80 D114 D160 D228	
COMBINATION BEAM & ADJ. CRANK C'BALANCE	ON REQUEST

COMPONENTS INCLUDED WITH UNIT
ADJUSTABLE CRANKS AS ORDERED
CRANK WEIGHT ADJUSTING WRENCH
FLOOR CLEARING REDUCER SUB-BASE
LADDER WITH SAFETY RING
WIRE LINE ASSEMBLY
SWING-BACK MULEHEAD
BRAKE ASSEMBLY
REDUCER SHEAVE
WRENCH FOR WRIST PIN NUT
GROUND LUBRICATION SYSTEM
HYDRAULIC WRIST PIN EJECTION
BELT GUARD

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DON & CINDY CANTRELL
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Midland, Texas 79703
Phone 697-5167

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MFG. CO. OF TEXAS
AMCOT
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AMERICAN MFG. CO. OF TEXAS EFFECTIVE JUNE, 1959

T17C PUMPING UNIT
MASTER WEIGHTS

UNIT DESCRIPTION		API POLISHED ROD CAPACITY (LBS.)		ZONE 1 (INCLUDING MAXIMUM EFFECTIVE COUNTERBALANCE AT THE POLISHED ROD AT MAXIMUM STROKE)																			
MAX. STROKE, SERIES, POLISHED ROD LOAD CLASS, TWIN CRANKS, FRAME TYPE, STRUCTURE, DOUBLE REDUCTION, API SIZE REDUCER, ADJUSTABLE CRANK				2-T12MW	2-T14MW	2-T12MW 2-T12PW	2-T17MW	4-T12MW	2-T14MW 2-T12MW	4-T12MW 2-T12PW	2-T17MT 2-T17PW	4-T14MW	2-T14MW 2-T12MW 2-T12PW	4-T12MW 4-T12PW	2-T17MW 2-T12MW 2-T12PW	4-T17MW	4-T14MW 2-T14MW	2-T17MW 2-T14MW 2-T14PW	4-T14MW 4-T14PW	4-T17MW 2-T17PW	2-T20MW 2-T17MW 2-T17PW	4-T17MW 4-T17PW	4-T20MW 4-T20PW
STANDARD	T17C54-17-D114Z	17300		5020#	5570#	5860#	5990#	6650#	7210#	7500#	7560#	7760#	8050#	8340#	8470#	8600#	8780#	9200#	9800#	10170#	10430#	11750#	13220#
STANDARD	T17C54-17-D160Z	17300		5020#	5570#	5860#	5990#	6650#	7210#	7500#	7560#	7760#	8050#	8340#	8470#	8600#	8780#	9200#	9800#	10170#	10430#	11750#	13220#
STANDARD	T17C64-17-D114Z	17300		4800#	5460#	5790#	6000#	6730#	7390#	7720#	7900#	8060#	8390#	8720#	8930#	9140#	9280#	9820#	10510#	11040#	11350#	12940#	14750#
STANDARD	T17C64-17-D160Z	17300		4800#	5460#	5790#	6000#	6730#	7390#	7720#	7900#	8060#	8390#	8720#	8930#	9140#	9280#	9820#	10510#	11040#	11350#	12940#	14750#

*WIDE FRAME UNIT	ZONE 1
ADD TO STANDARD FRAME	

ACCESSORIES	ZONE 1
MOTOR EXTENSION FOR HIGH PRIME (STUBBY)	
FRAME EXTENSION FOR SINGLE CYLINDER ENGINE OR ELECTRIC MOTOR WITH SLIDE RAILS	
NARROW EXTENSION FOR SINGLE CYLINDER ENGINE (SLIDE RAILS & ENG. SUB-BASE NOT REQ'D)	
FRAME EXTENSION FOR MULTI-CYLINDER ENGINE - WITH SLIDE RAILS	
FRAME EXTENSION FOR ELECTRIC MOTOR ONLY - WITH SLIDE RAILS	
FOUNDATION BOLTS, SET	
CENTERLINE BOLTING CONSISTING OF CLAMPS, FOUNDATION BOLTS, SLEEVE NUTS, STUDS, NUTS, AND WASHERS:	

ADD TO ZONE 1	
ZONE 2	
ZONE 3	
ZONE 4	
ZONE 5	

*SELECTED FRAME EXTENSION MUST ALSO BE ADDED

MISCELLANEOUS	ALL ZONES
CUSTOM PAINTING: ONE COLOR / TWO COLORS	
REDUCER OIL D114Z / D160Z	
COMBINATION BEAM & ADJ. CRANK C'BALANCE	ON REQUEST

COMPONENTS INCLUDED WITH UNIT
ADJUSTABLE CRANKS AS ORDERED
CRANK WEIGHT ADJUSTING WRENCH
FLOOR CLEARING REDUCER SUB-BASE
LADDER WITH SAFETY RING
WIRE LINE ASSEMBLY
SWING BACK MULEHEAD
BRAKE ASSEMBLY
REDUCER SHEAVE
WRENCH FOR WRIST PIN NUT
GROUND LUBRICATION SYSTEM
BELT GUARD

DON & CINDY CANTRELL
3303 West Shandon
Midland, Texas 79703
Phone 697-5167

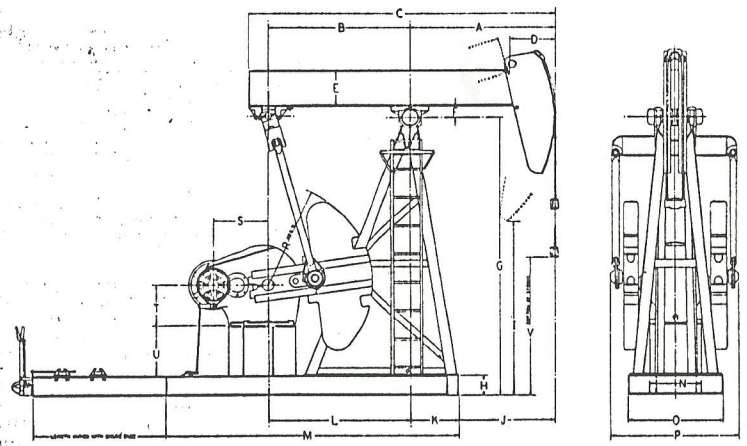
TORQUE FACTORS ON REQUEST

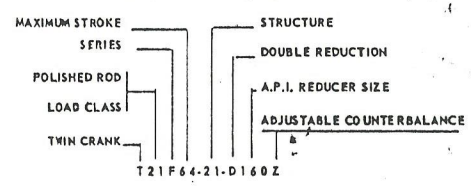
SUBJECT TO CHANGE WITHOUT NOTICE

AMERICAN
MFG. CO. OF TEXAS

QUALITY - SERVICE

T21F UNIT SPECIFICATIONS





BEARING SPECIFICATIONS					
WRIST PIN		SADDLE		EQUALIZER	
PIN DIA. AT CRANK	4.015"	SHAFT DIA.	6 1/2"	SHAFT DIA.	5"
TAPER PER FOOT	3/4"	BUSHING MAT'L	BRONZE	BUSHING MAT'L	BRONZE
TYPE BEARING	SPHERICAL ROLLER	PROJECTED AREA	117.162 SQ.IN.	PROJECTED AREA	62.126 SQ.IN.
MIN. B-10 LIFE	100,000 HR.	UNIT LOADING	375 PSI	UNIT LOADING	380 PSI
TYPE LUBRICANT	GREASE	TYPE LUBRICANT	GREASE	TYPE LUBRICANT	GREASE

UNIT DESIGNATION	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	R	S	T	U	V
T21F64-21-D160Z	8'-0"	8'-0"	17'-0 3/8"	21 3/16"	24"	6 3/4"	13'-10"	16"	8'-7"	5'-6 1/8"	29 7/8"	8'-0"	15'-8 3/8"	33 1/4"	61 3/4"	65 9/16"	65 1/2"	30.200"	20"	32"	5'-10 1/2"
T21F64-21-D228Z	8'-0"	8'-0"	17'-0 3/8"	21 3/16"	24"	6 3/4"	13'-10"	16"	8'-7"	5'-6 1/8"	29 7/8"	8'-0"	15'-8 3/8"	33 1/4"	61 3/4"	65 9/16"	65 1/2"	33.300"	24"	28"	5'-10 1/2"
T21F64-21-D320Z	8'-0"	8'-0"	17'-0 3/8"	21 3/16"	24"	6 3/4"	13'-10"	16"	8'-7"	5'-6 1/8"	29 7/8"	8'-0"	15'-8 3/8"	33 1/4"	61 3/4"	65 9/16"	65 1/2"	35.167"	24"	28"	5'-10 1/2"
T21F74-21-D160Z	9'-3"	9'-3"	19'-6 3/8"	21 3/16"	27"	6 3/4"	16'-2"	16"	10'-1"	6'-4 5/8"	34 3/8"	9'-3"	17'-3 7/8"	33 1/4"	68"	6'-2 9/16"	6'-4 1/4"	30.200"	20"	44"	7'-4 1/2"
T21F74-21-D228Z	9'-3"	9'-3"	19'-6 3/8"	21 3/16"	27"	6 3/4"	16'-2"	16"	10'-1"	6'-4 5/8"	34 3/8"	9'-3"	17'-3 7/8"	33 1/4"	68"	6'-2 9/16"	6'-4 1/4"	33.300"	24"	40"	7'-4 1/2"
T21F74-21-D320Z	9'-3"	9'-3"	19'-6 3/8"	21 3/16"	27"	6 3/4"	16'-2"	16"	10'-1"	6'-4 5/8"	34 3/8"	9'-3"	17'-3 7/8"	33 1/4"	68"	6'-2 9/16"	6'-4 1/4"	35.167"	24"	40"	7'-4 1/2"
T21F86-21-D160Z	10'-9"	10'-9"	22'-6 3/8"	28 5/16"	30"	6 3/4"	18'-5"	16"	11'-1"	7'-6 3/4"	38 1/4"	10'-9"	19'-1 3/4"	33 1/4"	6'-1 1/4"	6'-9 13/16"	7'-1 5/8"	30.200"	20"	53"	8'-1 1/8"
T21F86-21-D228Z	10'-9"	10'-9"	22'-6 3/8"	28 5/16"	30"	6 3/4"	18'-5"	16"	11'-1"	7'-6 3/4"	38 1/4"	10'-9"	19'-1 3/4"	33 1/4"	6'-1 1/4"	6'-9 13/16"	7'-1 5/8"	33.300"	24"	49"	8'-1 1/8"
T21F86-21-D320Z	10'-9"	10'-9"	22'-6 3/8"	28 5/16"	30"	6 3/4"	18'-5"	16"	11'-1"	7'-6 3/4"	38 1/4"	10'-9"	19'-1 3/4"	33 1/4"	6'-1 1/4"	6'-9 13/16"	7'-1 5/8"	35.167"	24"	49"	8'-1 1/8"

WALKING BEAM			
	T21F64	T21F74	T21F86
A.P.I. POLISHED ROD CAP.	20,725#	21,000#	21,000#
POLISHED ROD STROKES	34-44-54-64	44-54-64-74	56-66-76-86
BEAM SIZE	24" X 9" @94#	27" X10" @102#	30" X10½" @132#
LONGITUDINAL ADJUST.	3"	3"	3"
LATERAL ADJUST.	27/32"	27/32"	27/32"

PITMAN	
SIZE AND TYPE	4½" O.D. SEAMLESS PIPE
PITMAN LENGTH TO CRANK RADIUS RATIO	
T21F64	3.25
T21F74	3.19
T21F86	3.18

EQUALIZER	
SIZE AND WEIGHT	12" X 10" WF @ 53#

SAMSON POST		
TYPE		4 LEG DERRICK
SIZE LEGS - FRONT		6" X 6" X 1/2" ANGLE
REAR		6" X 4" X 1/2" ANGLE
SIZE BRACES		3 1/2" X 3" X 1/4" ANGLE
HEIGHT - FDN. to BRG.	T21F64	13'-10"
	T21F74	16'- 2"
	T21F86	18'- 5"
ATTACHMENT TO FRAME		BOLTED

FRAME	
SIZE AND WEIGHT	16" X 7" @ 36#

MULEHEAD	
TYPE	SELF ALIGNING, SWINGBACK ADJUSTABLE & REMOVABLE
SIZE WIRELINE	1" - 6X25 TYPE "W"

DON & CINDY CANTRELL
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QUALITY - SERVICE

REDUCER SPECIFICATIONS ON REQUEST

TORQUE FACTORS ON REQUEST

SUBJECT TO CHANGE WITHOUT NOTICE

SPECIFICATIONS

SPECIFICATIONS T21F

T21F PUMPING UNIT

SOLID WEIGHTS

UNIT DESCRIPTION		API POLISHED ROD CAPACITY (LBS.)		ZONE 1 (INCLUDING MAXIMUM EFFECTIVE COUNTERBALANCE AT THE POLISHED ROD AT MAXIMUM STROKE)															
MAX. STROKE / SERIES / POLISHED ROD LOAD CLASS / TWIN CRANKS / FRAME TYPE / STRUCTURE / DOUBLE REDUCTION / API SIZE REDUCER / ADJUSTABLE CRANK				2-F	4-B	2-B 2-D	4-D	2-D 2-F	4-F	2-F 2-H	4-H	2-H 2-J	4-J	2-J 2-L	4-L	2-L 2-N	4-N	2-N 2-P	4-P	2-P 2-R	4-R
STANDARD	T21F64-21-D160Z	20720		6490#	7130#	7590#	8060#	8300#	8550#	9140#	9740#	10360#	10980#	11270#	11570#	12310#	13050#	13520#	13990#	14880#	15770#
STANDARD	T21F64-21-D228Z	20720		6490#	7130#	7590#	8060#	8300#	8550#	9140#	9740#	10360#	10980#	11270#	11570#	12310#	13050#	13520#	13990#	14880#	15770#
STANDARD	T21F64-21-D320Z	20720		6490#	7130#	7590#	8060#	8300#	8550#	9140#	9740#	10360#	10980#	11270#	11570#	12310#	13050#	13520#	13990#	14880#	15770#
STANDARD	T21F74-21-D160Z	21000		8430#	8870#	9380#	9890#	10390#	10890#	11300#	11780#	12350#	12930#	13380#	13840#	14700#	15560#	16000#	16450#	17510#	18580#
STANDARD	T21F74-21-D228Z	21000		8430#	8870#	9380#	9890#	10390#	10890#	11300#	11780#	12350#	12930#	13380#	13840#	14700#	15560#	16000#	16450#	17510#	18580#
STANDARD	T21F74-21-D320Z	21000		8430#	8870#	9380#	9890#	10390#	10890#	11300#	11780#	12350#	12930#	13380#	13840#	14700#	15560#	16000#	16450#	17510#	18580#
STANDARD	T21F86-21-D160Z	21000		8590#	9010#	9510#	10020#	10520#	11030#	11490#	11950#	12530#	13110#	13580#	14050#	14940#	15840#	16290#	16750#	17820#	18890#
STANDARD	T21F86-21-D228Z	21000		8590#	9010#	9510#	10020#	10520#	11030#	11490#	11950#	12530#	13110#	13580#	14050#	14940#	15840#	16290#	16750#	17820#	18890#
STANDARD	T21F86-21-D320Z	21000		8590#	9010#	9510#	10020#	10520#	11030#	11490#	11950#	12530#	13110#	13580#	14050#	14940#	15840#	16290#	16750#	17820#	18890#
STANDARD	T21F100-21-D228Z																				
STANDARD	T21F100-21-D320Z																				
STANDARD	T21F100-21-D456Z																				

*WIDE FRAME UNIT	ZONE 1
ADD TO STANDARD FRAME	

ACCESSORIES	ZONE 1
MOTOR EXTENSION FOR HIGH PRIME (STUBBY)	
FRAME EXTENSION FOR SINGLE CYLINDER ENGINE OR ELECTRIC MOTOR WITH SLIDE RAILS	
NARROW EXTENSION FOR SINGLE CYLINDER ENGINE (SLIDE RAILS & ENG. SUB-BASE NOT REQ'D)	
FRAME EXTENSION FOR MULTI-CYLINDER ENGINE - WITH SLIDE RAILS	
FRAME EXTENSION FOR ELECTRIC MOTOR ONLY - WITH SLIDE RAILS	
FOUNDATION BOLTS, SET	
CENTERLINE BOLTING CONSISTING OF CLAMPS, FOUNDATION BOLTS, SLEEVE NUTS, STUDS, NUTS, AND WASHERS:	

ADD TO ZONE 1	
ZONE 2	
ZONE 3	
ZONE 4	
ZONE 5	

*SELECTED FRAME EXTENSION MUST ALSO BE ADDED

MISCELLANEOUS	ALL ZONES
CUSTOM PAINTING: ONE COLOR / TWO COLORS	
REDUCER OIL D160 / D228 / D320 / D456	
COMBINATION BEAM & ADJ. CRANK C'BALANCE	ON REQUEST

COMPONENTS INCLUDED WITH UNIT
ADJUSTABLE CRANKS AS ORDERED
CRANK WEIGHT ADJUSTING WRENCH
FLOOR CLEARING REDUCER SUB-BASE
LADDER WITH SAFETY RING
WIRE LINE ASSEMBLY
SWING-BACK MULEHEAD
BRAKE ASSEMBLY
REDUCER SHEAVE
WRENCH FOR WRIST PIN NUT
GROUND LUBRICATION SYSTEM
HYDRAULIC WRIST PIN EJECTION
BELT GUARD

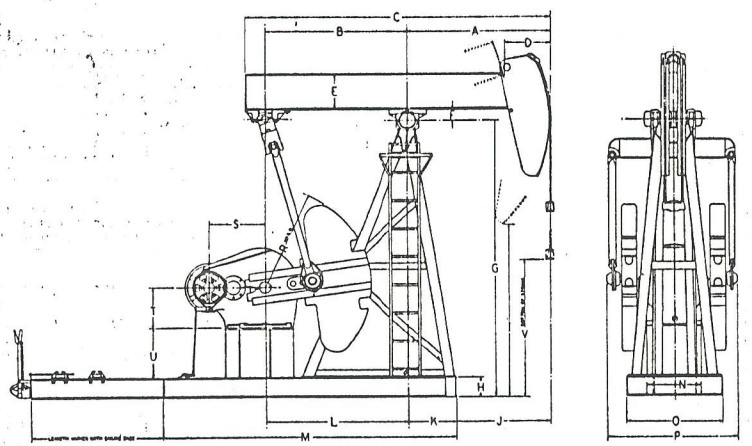
TORQUE FACTORS ON REQUEST

SUBJECT TO CHANGE WITHOUT NOTICE

AMERICAN
MFG. CO. OF TEXAS

QUALITY - SERVICE

T21F UNIT SPECIFICATIONS



MAXIMUM STROKE — STRUCTURE
SERIES — DOUBLE REDUCTION
POLISHED ROD — A.P.I. REDUCER SIZE
LOAD CLASS — ADJUSTABLE COUNTERBALANCE
TWIN CRANK

T21F64-21-D160Z

BEARING SPECIFICATIONS					
WRIST PIN		SADDLE		EQUALIZER	
PIN DIA. AT CRANK	4.015"	SHAFT DIA.	6 1/2"	SHAFT DIA.	5"
TAPER PER FOOT	3/4"	BUSHING MAT'L	BRONZE	BUSHING MAT'L	BRONZE
TYPE BEARING	SPHERICAL ROLLER	PROJECTED AREA	117.162 SQ.IN.	PROJECTED AREA	62.126 SQ.IN.
MIN. B-10 LIFE	100,000 HR.	UNIT LOADING	375 PSI	UNIT LOADING	380 PSI
TYPE LUBRICANT	GREASE	TYPE LUBRICANT	GREASE	TYPE LUBRICANT	GREASE

UNIT DESIGNATION	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	R	S	T	U	V
T21F64-21-D160Z	8'-0"	8'-0"	17'-0 3/8"	21 3/16"	24"	6 3/4"	13'-10"	16"	8'-7"	5'-6 1/8"	29 7/8"	8'-0"	15'-8 3/8"	33 1/4"	61 3/4"	65 9/16"	65 1/2"	30.200"	20"	32"	5'-10 1/2"
T21F64-21-D228Z	8'-0"	8'-0"	17'-0 3/8"	21 3/16"	24"	6 3/4"	13'-10"	16"	8'-7"	5'-6 1/8"	29 7/8"	8'-0"	15'-8 3/8"	33 1/4"	61 3/4"	65 9/16"	65 1/2"	33.300"	24"	28"	5'-10 1/2"
T21F64-21-D320Z	8'-0"	8'-0"	17'-0 3/8"	21 3/16"	24"	6 3/4"	13'-10"	16"	8'-7"	5'-6 1/8"	29 7/8"	8'-0"	15'-8 3/8"	33 1/4"	61 3/4"	65 9/16"	65 1/2"	35.167"	24"	28"	5'-10 1/2"
T21F74-21-D160Z	9'-3"	9'-3"	19'-6 3/8"	21 3/16"	27"	6 3/4"	16'-2"	16"	10'-1"	6'-4 5/8"	34 3/8"	9'-3"	17'-3 7/8"	33 1/4"	68"	6'-2 9/16"	6'-4 1/4"	30.200"	20"	44"	7'-4 1/2"
T21F74-21-D228Z	9'-3"	9'-3"	19'-6 3/8"	21 3/16"	27"	6 3/4"	16'-2"	16"	10'-1"	6'-4 5/8"	34 3/8"	9'-3"	17'-3 7/8"	33 1/4"	68"	6'-2 9/16"	6'-4 1/4"	33.300"	24"	40"	7'-4 1/2"
T21F74-21-D320Z	9'-3"	9'-3"	19'-6 3/8"	21 3/16"	27"	6 3/4"	16'-2"	16"	10'-1"	6'-4 5/8"	34 3/8"	9'-3"	17'-3 7/8"	33 1/4"	68"	6'-2 9/16"	6'-4 1/4"	35.167"	24"	40"	7'-4 1/2"
T21F86-21-D160Z	10'-9"	10'-9"	22'-6 3/8"	28 5/16"	30"	6 3/4"	18'-5"	16"	11'-1"	7'-6 3/4"	38 1/4"	10'-9"	19'-1 3/4"	33 1/4"	6'-1 1/4"	6'-9 13/16"	7'-1 5/8"	30.200"	20"	53"	8'-1 1/8"
T21F86-21-D228Z	10'-9"	10'-9"	22'-6 3/8"	28 5/16"	30"	6 3/4"	18'-5"	16"	11'-1"	7'-6 3/4"	38 1/4"	10'-9"	19'-1 3/4"	33 1/4"	6'-1 1/4"	6'-9 13/16"	7'-1 5/8"	33.300"	24"	49"	8'-1 1/8"
T21F86-21-D320Z	10'-9"	10'-9"	22'-6 3/8"	28 5/16"	30"	6 3/4"	18'-5"	16"	11'-1"	7'-6 3/4"	38 1/4"	10'-9"	19'-1 3/4"	33 1/4"	6'-1 1/4"	6'-9 13/16"	7'-1 5/8"	35.167"	24"	49"	8'-1 1/8"

WALKING BEAM			
	T21F64	T21F74	T21F86
A.P.I. POLISHED ROD CAP.	20,725#	21,000#	21,000#
POLISHED ROD STROKES	34-44-54-64	44-54-64-74	56-66-76-86
BEAM SIZE	24" X 9" @94#	27" X10" @102#	30" X10½" @132#
LONGITUDINAL ADJUST.	3"	3"	3"
LATERAL ADJUST.	27/32"	27/32"	27/32"

PITMAN		
SIZE AND TYPE	4½" O.D. SEAMLESS PIPE	
PITMAN LENGTH TO CRANK RADIUS RATIO		
	T21F64	3.25
	T21F74	3.19
	T21F86	3.18

EQUALIZER	
SIZE AND WEIGHT	12" X 10" WF @ 53#

SAMSON POST		
TYPE	4 LEG DERRICK	
SIZE LEGS - FRONT	6" X 6" X 1/2" ANGLE	
REAR	6" X 4" X 1/2" ANGLE	
SIZE BRACES	3 1/2" X 3" X 1/4" ANGLE	
HEIGHT - FDN. to BRG.	T21F64	13'-10"
	T21F74	16'- 2"
	T21F86	18'- 5"
ATTACHMENT TO FRAME	BOLTED	

FRAME	
SIZE AND WEIGHT	16" X 7" @ 36#

MULEHEAD	
TYPE	SELF ALIGNING, SWINGBACK ADJUSTABLE & REMOVABLE
SIZE WIRELINE	1" - 6X25 TYPE "W"

DON & CINDY CANTRELL
3303 West Shandon
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QUALITY - SERVICE

REDUCER SPECIFICATIONS ON REQUEST

TORQUE FACTORS ON REQUEST

SUBJECT TO CHANGE WITHOUT NOTICE

SPECIFICATIONS

SPECIFICATIONS T21F

T27D PUMPING UNIT
MASTER WEIGHTS

UNIT DESCRIPTION	API POLISHED ROD CAPACITY (LBS.)		ZONE 1 (INCLUDING MAXIMUM EFFECTIVE COUNTERBALANCE AT THE POLISHED ROD AT MAXIMUM STROKE)																								
MAX. STROKE / SERIES / POLISHED ROD LOAD CLASS / TWIN CRANKS / FRAME TYPE / STRUCTURE / DOUBLE REDUCTION / API SIZE REDUCER / ADJUSTABLE CRANK			2-T12MW	2-T14MW	2-T12MW 2-T12PW	2-T17MW	4-T12MW	2-T14MW 2-T12MW	4-T12MW 2-T12PW	2-T17MW 2-T17PW	4-T14MW	2-T14MW 2-T12MW 2-T12PW	4-T12MW 4-T12PW	2-T17MW 2-T12MW 2-T12PW	4-T17MW	4-T14MW 2-T14PW	2-T17MW 2-T14MW 2-T14PW	2-T20MW 2-T14MW 2-T14PW	4-T14MW 4-T14PW	4-T17MW 2-T17PW	2-T17MW 2-T14MW 2-T17PW 2-T14PW	2-T20MW 2-T17MW 2-T20PW	4-T17MW 4-T17PW	2-T20MW 2-T17MW 2-T20PW 2-T17PW	4-T20MW 4-T20PW	2-T27MW 2-T17MW 2-T27PW 2-T17PW	2-T27MW 2-T20MW 2-T27PW 2-T20PW	4-T27MW 4-T27PW
STANDARD T27D74-27-D228Z	27000		5080#	5680#	5970#	6180#	6800#	7400#	7690#	7900#	8010#	8300#	8580#	8800#	9020#	9110#	9620#	9900#	10220#	10740#	11340#	11570#	12460#	13290#	14120#	14900#	15730#	17350#
STANDARD T27D74-27-D320Z	27000		5080#	5680#	5970#	6180#	6800#	7400#	7690#	7900#	8010#	8300#	8580#	8800#	9020#	9110#	9620#	9900#	10220#	10740#	11340#	11570#	12460#	13290#	14120#	14900#	15730#	17350#
STANDARD T27D84-27-D228Z	27000		6360#	6940#	7220#	7530#	8120#	8800#	9070#	9440#	9470#	9760#	10060#	10350#	10640#	10760#	11280#	11590#	11890#	12580#	13180#	13460#	14460#	15380#	16290#	17290#	18200#	20100#
STANDARD T27D84-27-D320Z	27000		6360#	6940#	7220#	7530#	8120#	8800#	9070#	9440#	9470#	9760#	10060#	10350#	10640#	10760#	11280#	11590#	11890#	12580#	13180#	13460#	14460#	15380#	16290#	17290#	18200#	20100#
STANDARD T27D84-27-D456Z	27000		6360#	6940#	7220#	7530#	8120#	8800#	9070#	9440#	9470#	9760#	10060#	10350#	10640#	10760#	11280#	11590#	11890#	12580#	13180#	13460#	14460#	15380#	16290#	17290#	18200#	20100#
STANDARD T27D100-27-D228Z	24100		4890#	5450#	5700#	5950#	6450#	7010#	7250#	7550#	7580#	7820#	8080#	8320#	8560#	8600#	9100#	9350#	9610#	10180#	10700#	10940#	11780#	12540#	13300#	14150#	14910#	16520#
STANDARD T27D100-27-D320Z	24100		4890#	5450#	5700#	5950#	6450#	7010#	7250#	7550#	7580#	7820#	8080#	8320#	8560#	8600#	9100#	9350#	9610#	10180#	10700#	10940#	11780#	12540#	13300#	14150#	14910#	16520#
STANDARD T27D100-27-D456Z	24100		4890#	5450#	5700#	5950#	6450#	7010#	7250#	7550#	7580#	7820#	8080#	8320#	8560#	8600#	9100#	9350#	9610#	10180#	10700#	10940#	11780#	12540#	13300#	14150#	14910#	16520#

*WIDE FRAME UNIT	ZONE 1
ADD TO STANDARD FRAME	

ACCESSORIES	ZONE 1
MOTOR EXTENSION FOR HIGH PRIME (STUBBY)	
FRAME EXTENSION FOR SINGLE CYLINDER ENGINE OR ELECTRIC MOTOR WITH SLIDE RAILS	
NARROW EXTENSION FOR SINGLE CYLINDER ENGINE (SLIDE RAILS & ENG. SUB-BASE NOT REQ'D)	
FRAME EXTENSION FOR MULTI-CYLINDER ENGINE - WITH SLIDE RAILS	
FRAME EXTENSION FOR ELECTRIC MOTOR ONLY - WITH SLIDE RAILS	
FOUNDATION BOLTS, SET	
CENTERLINE BOLTING CONSISTING OF CLAMPS, FOUNDATION BOLTS, SLEEVE NUTS, STUDS, NUTS, AND WASHERS:	

ADD TO ZONE 1	
ZONE 2	
ZONE 3	
ZONE 4	
ZONE 5	

*SELECTED FRAME EXTENSION MUST ALSO BE ADDED

MISCELLANEOUS	ALL ZONES
CUSTOM PAINTING: ONE COLOR / TWO COLORS	
REDUCER OIL D228 / D320 / D456	
COMBINATION BEAM & AJD. CRANK C'BALANCE	ON REQUEST

COMPONENTS INCLUDED WITH UNIT
ADJUSTABLE CRANKS AS ORDERED
CRANK WEIGHT ADJUSTING WRENCH
FLOOR CLEARING REDUCER SUB-BASE
LADDER WITH SAFETY RING
WIRE LINE ASSEMBLY
SWING-BACK MULEHEAD
BRAKE ASSEMBLY
REDUCER SHEAVE
WRENCH FOR WRIST PIN NUT
GROUND LUBRICATION SYSTEM
BELT GUARD

TORQUE FACTORS ON REQUEST

SUBJECT TO CHANGE WITHOUT NOTICE

AMERICAN
MFG. CO. OF TEXAS

QUALITY - SERVICE

DON & CINDY CANTRELL
3303 West Shandon
Midland, Texas 79703
Phone 697-5167

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UNIT T12-D80

Fig. 12

STRUCTURE SPECIFICATIONS T12-D80

API Walking Beam Capacity	12,000 Lbs.
Beam Size and Weight	18″ x 7½″ C.B. @ 50#
Polished Rod Stroke	28″, 38″, 48″
Working Centers—Well End	66″
Pitman End	66″
Wire Line Size	⅞″
Wrist Pin Bearing—Type	Spherical Roller
Saddle Assembly—No. & Type Bearing	2—Bronze
Equalizer Assembly—No. & Type Bearing	2—Bronze
Crank—Types	Adjustable Counterweight Leaf-Type Counterweight
Foundation Bolts—No. & Size (with extension)	14—1″

REDUCER SPECIFICATIONS T12-D80

API Peak Torque @ 20 SPM	82,300 In. Lbs.
Nominal H.P. @ 20 SPM	16.6
Gear Ratio (Double Reduction)	29.9:1
Type Gear	Herringbone
Slow Speed Shaft—Diameter at Crank	5.000″
Crank Key	1½″ x 1⅝″
Type Bearing	Bronze
Intermediate Speed Shaft—Type Bearing	Straight Roller
High Speed Shaft—Diameter at Extension	2.187″
Sheave Key	½″ x ⅝″
Type Bearing	Straight Roller
"V" Belt Sheave—Standard	24″ P.D. 3C
Optional	18″ P.D. 4C

WEIGHT OF T12-D80 PUMPING UNIT

COMPLETE WITH FLOOR CLEARING SUB-BASE, LADDER, ADJUSTABLE COUNTERWEIGHT CRANKS WITH MASTER WEIGHTS, WIRE LINE CABLE, AND POLISHED ROD GRIP.

With Short Base	10,320#
With Multi-Cylinder Engine Extension	10,660#
With Single-Cylinder Engine and Electric Motor Extension	10,680#
For Leaf-Type Counterweight Cranks, subtract from each of the above weights	2,370#

COUNTERBALANCE DATA — LEAF-TYPE CRANK T12-D80

Number of Weights	Total Counterbalance Effect at Polished Rod (Lbs.)		
	28″ Stroke	38″ Stroke	48″ Stroke
Cranks Only	1850	1440	1210
Cranks and Master Weights	3320	2530	2060
4	4040	3060	2480
8	4800	3620	2930
12	5610	4210	3400
16	6460	4840	3900
20	7360	5500	4420
24	8300	6190	4970
28		6920	5540
32		7670	6140
36		8460	6760
40			7410
44			8090

COUNTERBALANCE DATA — ADJUSTABLE CRANK T12-D80

Max. counterbalance at Max. Stroke with Adjustable Cranks less pocket weights (lbs.)	5100
Max. counterbalance at Max. Stroke with Adjustable Cranks with pocket weights (lbs.)	6800

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UNIT T14-D114

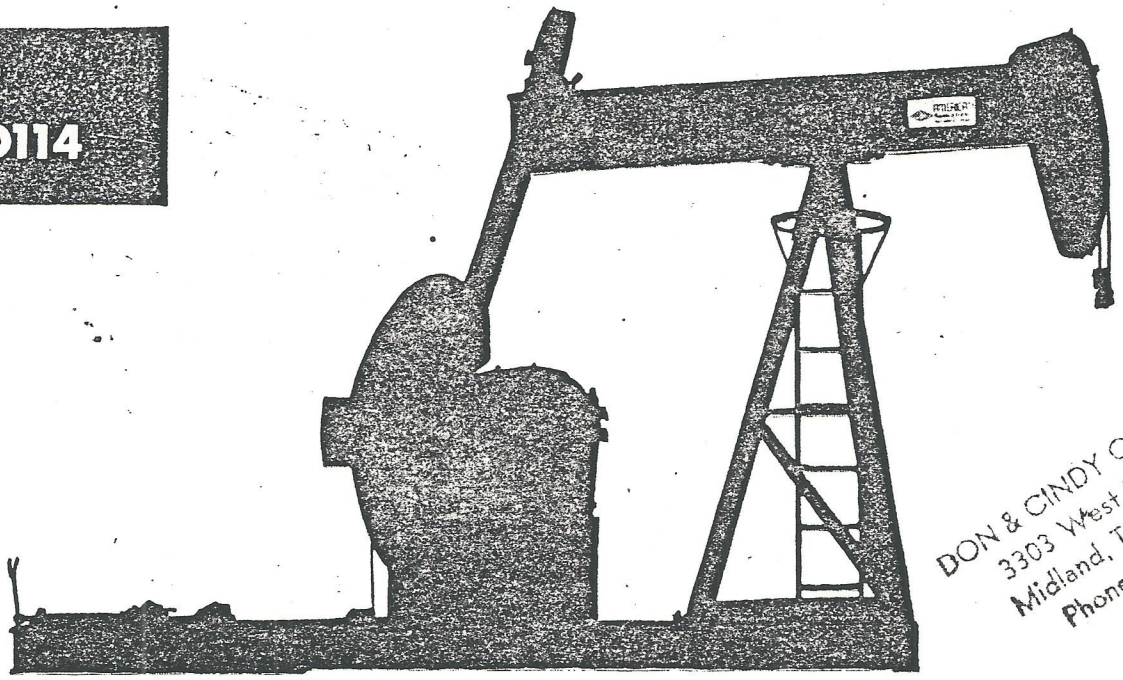

Fig. 13

STRUCTURE SPECIFICATIONS T14-D114

API Walking Beam Capacity	14,000 Lbs.
Beam Size and Weight	18″ x 7½″ C.B. @ 60#
Polished Rod Stroke	28″, 38″, 48″
Working Centers—Well End	69″
Pitman End	69″
Wire Line Size	⅞″
Wrist Pin Bearing—Type	Spherical Roller
Saddle Assembly—No. & Type Bearing	2—Bronze
Equalizer Assembly—No. & Type Bearing	2—Bronze
Crank—Types	Adjustable Counterweight Leaf-Type Counterweight
Foundation Bolts—No. & Size (with extension)	14—1″

REDUCER SPECIFICATIONS T14-D114

API Peak Torque @ 20 SPM	114,000 In. Lbs.
Nominal H.P. @ 20 SPM	23.0
Gear Ratio (Double Reduction)	30.6:1
Type Gear	Herringbone
Slow Speed Shaft—Diameter at Crank	5.500″
Crank Key	1⅜″ x 1⅜″
Type Bearing	Bronze
Intermediate Speed Shaft—Type Bearing	Straight Roller
High Speed Shaft—Diameter at Extension	2.437″
Sheave Key	⅝″ x ⅝″
Type Bearing	Straight Roller
"V" Belt Sheave—Standard	24″ P.D. 4C
Optional	18″ P.D. 4C

WEIGHT OF T14-D114 PUMPING UNIT

COMPLETE WITH FLOOR CLEARING SUB-BASE, LADDER, ADJUSTABLE COUNTERWEIGHT CRANKS WITH MASTER WEIGHTS, WIRE LINE CABLE, AND POLISHED ROD GRIP.

With Short Base	14,250#
With Multi-Cylinder Engine Extension	14,660#
With Single-Cylinder Engine and Electric Motor Extension	14,630#
For Leaf-Type Counterweight Cranks, Subtract from each of the above weights	3,370#

COUNTERBALANCE DATA — LEAF-TYPE CRANK T14-D114

Number of Weights	Total Counterbalance Effect at Polished Rod (Lbs.)		
	28″ Stroke	38″ Stroke	48″ Stroke
Cranks Only	1990	1580	1350
Cranks and Master Weights	3460	2670	2200
4	4180	3200	2620
8	4940	3760	3070
12	5750	4350	3540
16	6600	4980	4040
20	7500	5640	4560
24	8440	6330	5110
28	9420	7060	5680
32		7810	6280
36		8600	6900
40		9420	7550
44			8230
48			8930
52			9650

COUNTERBALANCE DATA — ADJUSTABLE CRANK T14-D114

Max. counterbalance at Max. Stroke with Adjustable Cranks less pocket weights (lbs.)	7100
Max. counterbalance at Max. Stroke with Adjustable Cranks with pocket weights (lbs.)	9800

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UNIT T17-D114

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Fig. 14

STRUCTURE SPECIFICATIONS T17-D114

API Walking Beam Capacity	17,300 Lbs.
Beam Size and Weight	21″ x 8¼″ C.B. @ 73#
Polished Rod Stroke	24″, 34″, 44″, 54″
Working Centers—Well End	81″
Pitman End	79″
Wire Line Size	1″
Wrist Pin Bearing—Type	Spherical Roller
Saddle Assembly—No. & Type Bearing	2—Bronze
Equalizer Assembly—No. & Type Bearing	2—Bronze
Crank—Types	Adjustable Counterweight Leaf-Type Counterweight
Foundation Bolts—No. & Size (with extension)	14—1″

REDUCER SPECIFICATIONS T17-D114

API Peak Torque @ 20 SPM	114,000 In. Lbs.
Nominal H.P. @ 20 SPM	23.0
Gear Ratio (Double Reduction)	30.6:1
Type Gear	Herringbone
Slow Speed Shaft—Diameter at Crank	5.500″
Crank Key	1⅜″ x 1⅜″
Type Bearing	Bronze
Intermediate Speed Shaft—Type Bearing	Straight Roller
High Speed Shaft—Diameter at Extension	2.437″
Sheave Key	⅝″ x ⅝″
Type Bearing	Straight Roller
"V" Belt Sheave—Standard	24″ P.D. 4C
Optional	18″ P.D. 4C

WEIGHT OF T17-D114 PUMPING UNIT

COMPLETE WITH FLOOR CLEARING SUB-BASE, LADDER, ADJUSTABLE COUNTERWEIGHT CRANKS WITH MASTER WEIGHTS, WIRE LINE CABLE, AND POLISHED ROD GRIP.

With Short Base	15,390#
With Multi-Cylinder Engine Extension	15,870#
With Single-Cylinder Engine and Electric Motor Extension	15,840#
For Leaf-Type Counterweight Cranks, Subtract from each of the above weights	3,530#

COUNTERBALANCE DATA — LEAF-TYPE CRANK T17-D114

Number of Weights	Total Counterbalance Effect at Polished Rod (Lbs.)			
	24″ Stroke	34″ Stroke	44″ Stroke	54″ Stroke
Cranks Only	3540	2640	2140	1820
Cranks and Master Weights	6490	4710	3740	3130
4	8110	5860	4630	3850
8	9840	7080	5570	4620
12	11680	8380	6580	5440
16	13630	9760	7640	6310
20		11210	8770	7230
24		12750	9950	8190
28			11200	9210
32			12510	10270
36				11390
40				12550

COUNTERBALANCE DATA — ADJUSTABLE CRANK T17-D114

Max. counterbalance at Max. Stroke with Adjustable Cranks less pocket weights (lbs.)	8,400
Max. counterbalance at Max. Stroke with Adjustable Cranks with pocket weights (lbs.)	12,100

AMERICAN MANUFACTURING COMPANY OF TEXAS

UNIT T17-D160

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Fig. 15

STRUCTURE SPECIFICATIONS T17-D160

API Walking Beam Capacity	17,300 Lbs.
Beam Size and Weight	21" x 8¼" C.B. @ 73#
Polished Rod Stroke	24", 34", 44", 54"
Working Centers—Well End	81"
Pitman End	79"
Wire Line Size	1"
Wrist Pin Bearing—Type	Spherical Roller
Saddle Assembly—No. & Type Bearing	2—Bronze
Equalizer Assembly—No. & Type Bearing	2—Bronze
Crank—Types	Adjustable Counterweight Leaf-Type Counterweight
Foundation Bolts—No. & Size (with extension)	14—1"

REDUCER SPECIFICATIONS T17-D160

API Peak Torque @ 20 SPM	161,300 In. Lbs.
Nominal H.P. @ 20 SPM	32.6
Gear Ratio (Double Reduction)	29.0:1
Type Gear	Herringbone
Slow Speed Shaft—Diameter at Crank	6.000"
Crank Key	1½" x 1½"
Type Bearing	Bronze
Intermediate Speed Shaft—Type Bearing	Straight Roller
High Speed Shaft—Diameter at Extension	2.937"
Sheave Key	¾" x ¾"
Type Bearing	Straight Roller
"V" Belt Sheave—Standard	26" P.D. 5C
Optional	20" P.D. 5C

WEIGHT OF T17-D160 PUMPING UNIT

COMPLETE WITH FLOOR CLEARING SUB-BASE, LADDER, ADJUSTABLE COUNTERWEIGHT CRANKS WITH MASTER WEIGHTS, WIRE LINE CABLE, AND POLISHED ROD GRIP.

With Short Base	15,710#
With Multi-Cylinder Engine Extension	16,190#
With Single-Cylinder Engine and Electric Motor Extension	16,160#
For Leaf-Type Counterweight Cranks, Subtract from each of the above weights	3,530#

COUNTERBALANCE DATA—LEAF-TYPE CRANK T17-D160

Number of Weights	Total Counterbalance Effect at Polished Rod (Lbs.)			
	24" Stroke	34" Stroke	44" Stroke	54" Stroke
Cranks Only	3540	2640	2140	1820
Cranks and Master Weights	6490	4710	3740	3130
4	8110	5860	4630	3850
8	9840	7080	5570	4620
12	11680	8380	6580	5440
16	13630	9760	7640	6310
20		11210	8770	7230
24		12750	9950	8190
28			11200	9210
32			12510	10270
36				11390
40				12550

COUNTERBALANCE DATA—ADJUSTABLE CRANK T17-D160

Max. counterbalance at Max. Stroke with Adjustable Cranks less pocket weights (lbs.)	8,400
Max. counterbalance at Max. Stroke with Adjustable Cranks with pocket weights (lbs.)	12,100

AMERICAN MANUFACTURING COMPANY OF TEXAS

UNIT T17-D160

Fig. 15

STRUCTURE SPECIFICATIONS T17-D160

API Walking Beam Capacity	17,300 Lbs.
Beam Size and Weight	21" x 8¼" C.B. @ 73#
Polished Rod Stroke	24", 34", 44", 54"
Working Centers—Well End	81"
Pitman End	79"
Wire Line Size	1"
Wrist Pin Bearing—Type	Spherical Roller
Saddle Assembly—No. & Type Bearing	2—Bronze
Equalizer Assembly—No. & Type Bearing	2—Bronze
Crank—Types	Adjustable Counterweight Leaf-Type Counterweight
Foundation Bolts—No. & Size (with extension)	14—1"

REDUCER SPECIFICATIONS T17-D160

API Peak Torque @ 20 SPM	161,300 In. Lbs.
Nominal H.P. @ 20 SPM	32.6
Gear Ratio (Double Reduction)	29.0:1
Type Gear	Herringbone
Slow Speed Shaft—Diameter at Crank	6.000"
Crank Key	1½" x 1½"
Type Bearing	Bronze
Intermediate Speed Shaft—Type Bearing	Straight Roller
High Speed Shaft—Diameter at Extension	2.937"
Sheave Key	¾" x ¾"
Type Bearing	Straight Roller
"V" Belt Sheave—Standard	26" P.D. 5C
Optional	20" P.D. 5C

WEIGHT OF T17-D160 PUMPING UNIT

COMPLETE WITH FLOOR CLEARING SUB-BASE, LADDER, ADJUSTABLE COUNTERWEIGHT CRANKS WITH MASTER WEIGHTS, WIRE LINE CABLE, AND POLISHED ROD GRIP.

With Short Base	15,710#
With Multi-Cylinder Engine Extension	16,190#
With Single-Cylinder Engine and Electric Motor Extension	16,160#
For Leaf-Type Counterweight Cranks, Subtract from each of the above weights	3,530#

COUNTERBALANCE DATA—LEAF-TYPE CRANK T17-D160

Number of Weights	Total Counterbalance Effect at Polished Rod (Lbs.)			
	24" Stroke	34" Stroke	44" Stroke	54" Stroke
Cranks Only	3540	2640	2140	1820
Cranks and Master Weights	6490	4710	3740	3130
4	8110	5860	4630	3850
8	9840	7080	5570	4620
12	11680	8380	6580	5440
16	13630	9760	7640	6310
20		11210	8770	7230
24		12750	9950	8190
28			11200	9210
32			12510	10270
36				11390
40				12550

COUNTERBALANCE DATA—ADJUSTABLE CRANK T17-D160

Max. counterbalance at Max. Stroke with Adjustable Cranks less pocket weights (lbs.)	8,400
Max. counterbalance at Max. Stroke with Adjustable Cranks with pocket weights (lbs.)	12,100

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UNIT T20-D160

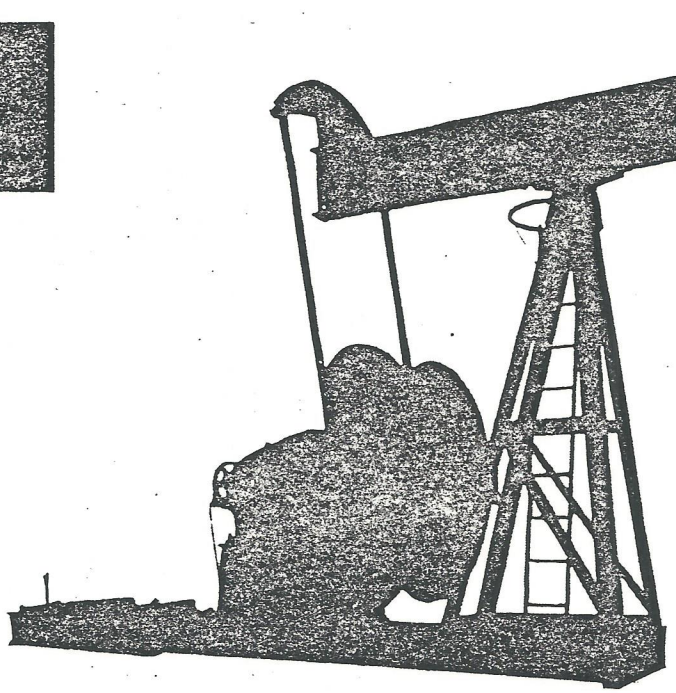

Fig. 16

STRUCTURE SPECIFICATIONS T20-D160

API Walking Beam Capacity	20,000 Lbs.
Beam Size and Weight	24″ x 9″ C.B. @ 94#
Polished Rod Stroke	34″, 44″, 54″, 64″
Working Centers—Well End	96″
Pitman End	96″
Wire Line Size	1″
Wrist Pin Bearing—Type	Spherical Roller
Saddle Assembly—No. & Type Bearing	2—Bronze
Equalizer Assembly—No. & Type Bearing	2—Bronze
Crank—Types	Adjustable Counterweight Leaf-Type Counterweight
Foundation Bolts—No. & Size (with extension)	14—1⅛″

REDUCER SPECIFICATIONS T20-D160

API Peak Torque @ 20 SPM	161,300 In. Lbs.
Nonimal H.P. @ 20 SPM	32.6
Gear Ratio (Double Reduction)	29.0:1
Type Gear	Herringbone
Slow Speed Shaft—Diameter at Crank	6.000″
Crank Key	1½″ x 1½″
Type Bearing	Bronze
Intermediate Speed Shaft—Type Bearing	Straight Roller
High Speed Shaft—Diameter at Extension	2.937″
Sheave Key	¾″ x ¾″
Type Bearing	Straight Roller
"V" Belt Sheave—Standard	26″ P.D. 5C
Optional	20″ P.D. 5C

WEIGHT OF T20-D160 PUMPING UNIT

COMPLETE WITH FLOOR CLEARING SUB-BASE, LADDER, ADJUSTABLE COUNTERWEIGHT CRANKS WITH MASTER WEIGHTS, WIRE LINE CABLE, AND POLISHED ROD GRIP.

With Short Base	18,520#
With Multi-Cylinder Engine Extension	19,300#
With Single-Cylinder Engine and Electric Motor Extension	19,310#
For Leaf-Type Counterweight Cranks, Subtract from each of the above weights	3,140#

COUNTERBALANCE DATA — LEAF-TYPE CRANK T20-D160

Number of Weights	Total Counterbalance Effect at Polished Rod (Lbs.)			
	34″ Stroke	44″ Stroke	54″ Stroke	64″ Stroke
Cranks Only	3890	3170	2710	2400
Cranks and Master Weights	7260	5770	4840	4190
4	8860	7000	5840	5040
8	10560	8320	6910	5940
12	12370	9720	8050	6900
16	14240	11170	9230	7900
20		12710	10490	8960
24		14340	11810	10080
28		16040	13200	11250
32			14600	12430
36			16210	13790
40				15120

COUNTERBALANCE DATA — ADJUSTABLE CRANK T20-D160

Max. counterbalance at Max. Stroke with Adjustable Cranks less pocket weights (lbs.)	9,600
Max. counterbalance at Max. Stroke with Adjustable Cranks with pocket weights (lbs.)	14,400

AMERICAN MANUFACTURING COMPANY OF TEXAS

UNIT T20-D228

Fig. 17

STRUCTURE SPECIFICATIONS T20-D228

API Walking Beam Capacity	20,000 Lbs.
Beam Size and Weight	24" x 9" C.B. @ 94#
Polished Rod Stroke	34", 44", 54", 64"
Working Centers—Well End	96"
Pitman End	96"
Wire Line Size	1"
Wrist Pin Bearing—Type	Spherical Roller
Saddle Assembly—No. & Type Bearing	2—Bronze
Equalizer Assembly—No. & Type Bearing	2—Bronze
Crank—Types	Adjustable Counterweight Leaf-Type Counterweight
Foundation Bolts—No. & Size (with extension)	14—1⅛"

REDUCER SPECIFICATIONS T20-D228

API Peak Torque @ 20 SPM	228,600 In. Lbs.
Nominal H.P. @ 20 SPM	46.2
Gear Ratio (Double Reduction)	30.0:1
Type Gear	Herringbone
Slow Speed Shaft—Diameter at Crank	6.500"
Crank Key	1¾" x 1¾"
Type Bearing	Bronze
Intermediate Speed Shaft—Type Bearing	Straight Roller
High Speed Shaft—Diameter at Extension	3.125"
Sheave Key	¾" x ¾"
Type Bearing	Straight Roller
"V" Belt Sheave—Standard	26" P.D. 7C
Optional	20" P.D. 7C

WEIGHT OF T20-D228 PUMPING UNIT

COMPLETE WITH FLOOR CLEARING SUB-BASE, LADDER, ADJUSTABLE COUNTERWEIGHT CRANKS WITH MASTER WEIGHTS, WIRE LINE CABLE, AND POLISHED ROD GRIP.

With Short Base	19,620#
With Multi-Cylinder Engine Extension	20,400#
With Single-Cylinder Engine and Electric Motor Extension	20,410#
For Leaf-Type Counterweight Cranks, subtract from each of the above weights	3,140#

COUNTERBALANCE DATA — LEAF-TYPE CRANK T20-D228

Number of Weights	Total Counterbalance Effect at Polished Rod (Lbs.)			
	34" Stroke	44" Stroke	54" Stroke	64" Stroke
Cranks Only	3890	3170	2710	2400
Cranks and Master Weights	7260	5770	4840	4190
4	8860	7000	5640	5040
8	10560	8320	6912	5940
12	12370	9720	8050	6900
16	14240	11170	9230	7900
20	16250	12710	10490	8960
24		14340	11810	10080
28		16040	13200	11250
32			14600	12430
36			16210	13790
40				15120

COUNTERBALANCE DATA — ADJUSTABLE CRANK T20-D228

Max. counterbalance at Max. Stroke with Adjustable Cranks less pocket weights (lbs.)	9,600
Max. counterbalance at Max. Stroke with Adjustable Cranks with pocket weights (lbs.)	14,400

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UNIT T20-D160

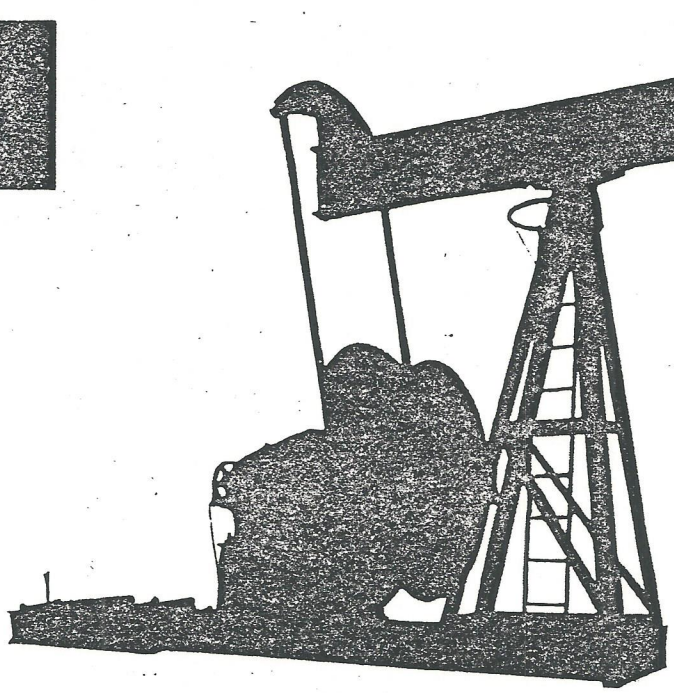

Fig. 16

STRUCTURE SPECIFICATIONS T20-D160

API Walking Beam Capacity	20,000 Lbs.
Beam Size and Weight	24″ x 9″ C.B. @ 94#
Polished Rod Stroke	34″, 44″, 54″, 64″
Working Centers—Well End	96″
Pitman End	96″
Wire Line Size	1″
Wrist Pin Bearing—Type	Spherical Roller
Saddle Assembly—No. & Type Bearing	2—Bronze
Equalizer Assembly—No. & Type Bearing	2—Bronze
Crank—Types	Adjustable Counterweight Leaf-Type Counterweight
Foundation Bolts—No. & Size (with extension)	14—1⅛″

REDUCER SPECIFICATIONS T20-D160

API Peak Torque @ 20 SPM	161,300 In. Lbs.
Nonimal H.P. @ 20 SPM	32.6
Gear Ratio (Double Reduction)	29.0:1
Type Gear	Herringbone
Slow Speed Shaft—Diameter at Crank	6.000″
Crank Key	1½″ x 1½″
Type Bearing	Bronze
Intermediate Speed Shaft—Type Bearing	Straight Roller
High Speed Shaft—Diameter at Extension	2.937″
Sheave Key	¾″ x ¾″
Type Bearing	Straight Roller
"V" Belt Sheave—Standard	26″ P.D. 5C
Optional	20″ P.D. 5C

WEIGHT OF T20-D160 PUMPING UNIT

COMPLETE WITH FLOOR CLEARING SUB-BASE, LADDER, ADJUSTABLE COUNTERWEIGHT CRANKS WITH MASTER WEIGHTS, WIRE LINE CABLE, AND POLISHED ROD GRIP.

With Short Base	18,520#
With Multi-Cylinder Engine Extension	19,300#
With Single-Cylinder Engine and Electric Motor Extension	19,310#
For Leaf-Type Counterweight Cranks, Subtract from each of the above weights	3,140#

COUNTERBALANCE DATA — LEAF-TYPE CRANK T20-D160

Number of Weights	Total Counterbalance Effect at Polished Rod (Lbs.)			
	34″ Stroke	44″ Stroke	54″ Stroke	64″ Stroke
Cranks Only	3890	3170	2710	2400
Cranks and Master Weights	7260	5770	4840	4190
4	8860	7000	5840	5040
8	10560	8320	6910	5940
12	12370	9720	8050	6900
16	14240	11170	9230	7900
20		12710	10490	8960
24		14340	11810	10080
28		16040	13200	11250
32			14600	12430
36			16210	13790
40				15120

COUNTERBALANCE DATA — ADJUSTABLE CRANK T20-D160

Max. counterbalance at Max. Stroke with Adjustable Cranks less pocket weights (lbs.)	9,600
Max. counterbalance at Max. Stroke with Adjustable Cranks with pocket weights (lbs.)	14,400

AMERICAN MANUFACTURING COMPANY OF TEXAS

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UNIT T27-D228

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Midland, Texas 79703
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Fig. 18

STRUCTURE SPECIFICATIONS T27-D228

API Walking Beam Capacity	27,000 Lbs.
Beam Size and Weight	27" x 14" C.B. @ 145#
Polished Rod Stroke	44", 54", 64", 74"
Working Centers—Well End	129"
Pitman End	129"
Wire Line Size	1"
Wrist Pin Bearing—Type	Spherical Roller
Saddle Assembly—No. & Type Bearing	2—Bronze
Equalizer Assembly—No. & Type Bearing	2—Bronze
Crank—Types	Adjustable Counterweight Leaf-Type Counterweight
Foundation Bolts—No. & Size (with extension)	16—1¼"

REDUCER SPECIFICATIONS T27-D228

API Peak Torque @ 20 SPM	228,600 In. Lbs.
Nominal H.P. @ 20 SPM	46.2
Gear Ratio (Double Reduction)	30.0:1
Type Gear	Herringbone
Slow Speed Shaft—Diameter at Crank	6.500"
Crank Key	1¾" x 1¾"
Type Bearing	Bronze
Intermediate Speed Shaft—Type Bearing	Straight Roller
High Speed Shaft—Diameter at Extension	3.125"
Sheave Key	¾" x ¾"
Type Bearing	Straight Roller
"V" Belt Sheave—Standard	26" P.D. 7C
Optional	20" P.D. 7C

WEIGHT OF T27-D228 PUMPING UNIT

COMPLETE WITH FLOOR CLEARING SUB-BASE, LADDER, ADJUSTABLE COUNTERWEIGHT CRANKS WITH MASTER WEIGHTS, WIRE LINE CABLE, AND POLISHED ROD GRIP.

With Short Base	25,320#
With Multi-Cylinder Engine Extension	26,220#
With Single-Cylinder Engine and Electric Motor Extension	26,220#
For Leaf-Type Counterweight Cranks, subtract from each of the above weights	5,270#

COUNTERBALANCE DATA — LEAF-TYPE CRANK T27-D228

Number of Weights	Total Counterbalance Effect at Polished Rod (Lbs.)			
	44" Stroke	54" Stroke	64" Stroke	74" Stroke
Cranks Only	4080	3550	3190	2920
Cranks and Master Weights	7060	5980	5230	4690
4	8420	7090	6170	5500
8	9860	8260	7160	6350
12	11380	9500	8200	7260
16	12980	10800	9300	8210
20	14660	12170	10450	9210
24	16410	13600	11660	10250
28	18240	15090	12920	11340
32	20160	16650	14230	12470
36	22140	18270	15600	13660
40		19950	17020	14880
44		21700	18490	16160
48			20020	17480
52			21600	18850
56				20760

COUNTERBALANCE DATA — ADJUSTABLE CRANK T27-D228

Max. counterbalance at Max. Stroke with Adjustable Cranks less pocket weights (lbs.)	12,700
Max. counterbalance at Max. Stroke with Adjustable Cranks with pocket weights (lbs.)	20,100

AMERICAN MANUFACTURING COMPANY OF TEXAS

AMERICAN BELL CRANKS AND VEE ATTACHMENTS

To complete the requirements for oil field pumping American offers Bell Cranks and Vee attachments for well take-offs on most sizes of pumping units.

VEE ATTACHMENTS

Vee Attachments are available for all sizes of Pumping Units except the T20 and T27. The unit walking beam can be drilled so that Vee Attachments can be installed at any time. The Vee frames are of welded steel construction. The Pull Strap bearing housing is equipped with needle bearings and has oil seals to retain lubricant and keep out dust. Pull Straps are furnished with either 2" standard pipe thread connection or with 1½" pull rod connection, as ordered. For complete parts list, see Bulletin No. 21.

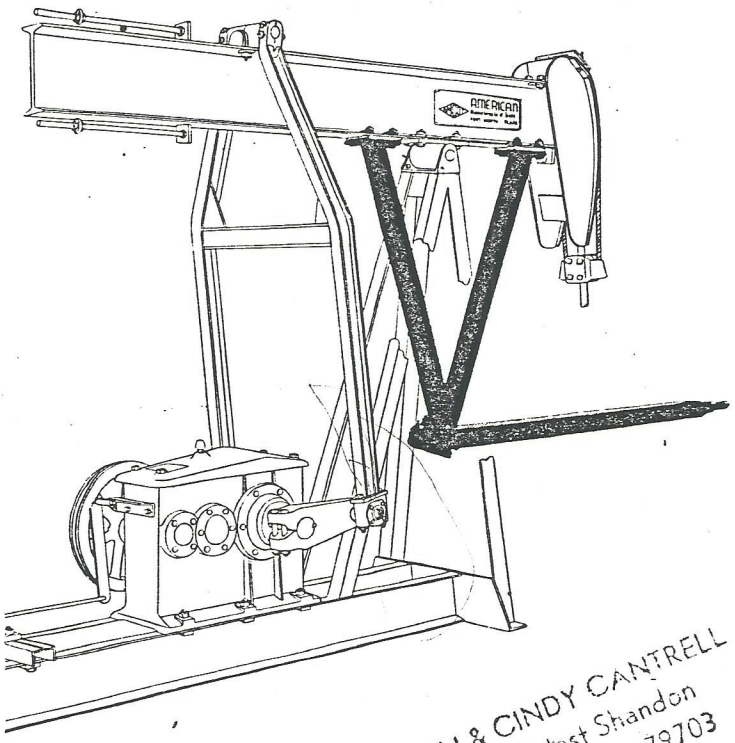

Fig. 28

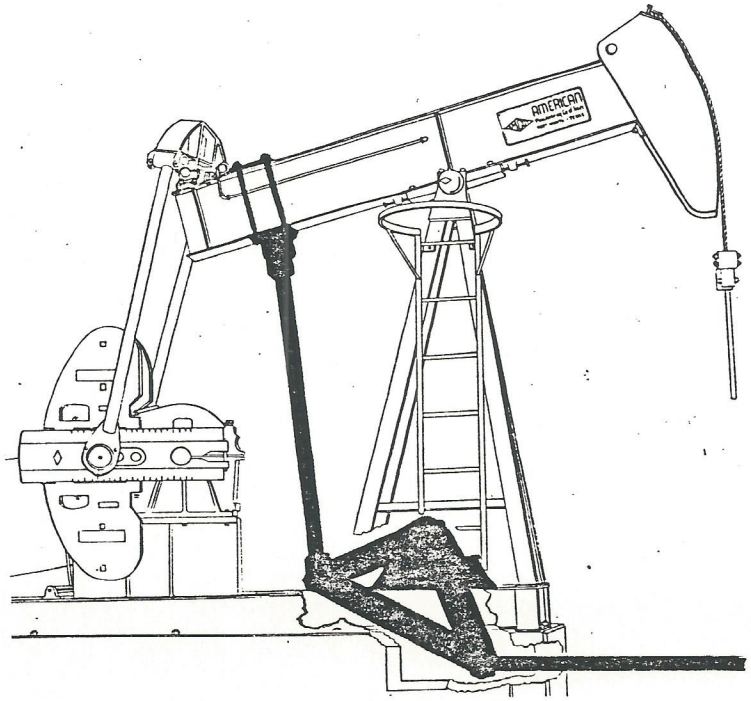

Fig. 29

BELL CRANKS

Bell Cranks are available for the T12, T14 and T17 series of pumping units. The necessary holes can be cut in the unit frame to permit installation. A special unit foundation is required for Bell Crank clearance.

These Bell Cranks are equipped with bronze bushings for long life and minimum friction loss. All bearing housings have oil seals to retain the lubricants and keep out dust. The crank is of heavy welded steel construction. The pipe pitman has a double joint bearing assembly at each end for universal equalizing action. The pitman beam bracket is held securely to the Pumping Unit Walking Beam by four large studs. Pull Straps which are sufficiently wide to straddle well heads are furnished with either 2" standard pipe thread connection or with 1½" pull rod connection, as ordered. For complete parts list, see Bulletin No. 21.

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UNIT T27-D320

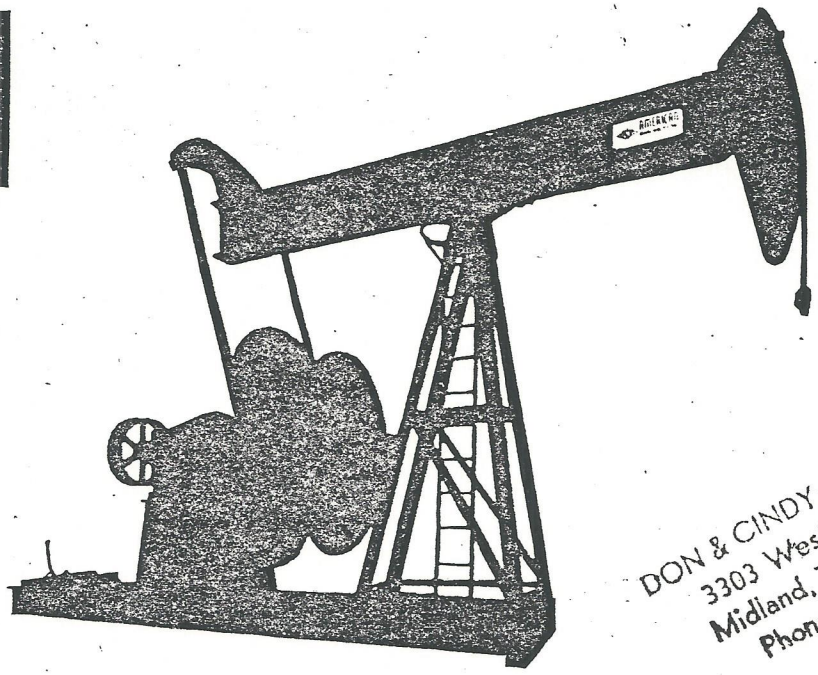

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Fig. 19

STRUCTURE SPECIFICATIONS T27-D320

API Walking Beam Capacity	27,000 Lbs.
Beam Size and Weight	27″ x 14″ C.B. @ 145#
Polished Rod Stroke	44″, 54″, 64″, 74″, 84″
Working Centers—Well End	129″
Pitman End	129″
Wire Line Size	1″
Wrist Pin Bearing—Type	Spherical Roller
Saddle Assembly—No. & Type Bearing	2—Bronze
Equalizer Assembly—No. & Type Bearing	2—Bronze
Crank—Types	Adjustable Counterweight Leaf-Type Counterweight
Foundation Bolts—No. & Size (with extension)	16—1¼″

REDUCER SPECIFICATIONS T27-D320

API Peak Torque @ 20 SPM	321,700 In. Lbs.
Nominal H.P. @ 20 SPM	65.0
Gear Ratio (Double Reduction)	30.3:1
Type Gear	Herringbone
Slow Speed Shaft—Diameter at Crank	7.250″
Crank Key	1¾″ x 1¾″
Type Bearing	Bronze
Intermediate Speed Shaft—Type Bearing	Straight Roller
High Speed Shaft—Diameter at Extension	3.500″
Sheave Key	⅞″ x ⅞″
Type Bearing	Straight Roller
"V" Belt Sheave—Standard	34″ P.D. 8C
Optional	26″ P.D. 5D

WEIGHT OF T27-D320 PUMPING UNIT

COMPLETE WITH FLOOR CLEARING SUB-BASE, LADDER, ADJUSTABLE COUNTERWEIGHT CRANKS WITH MASTER WEIGHTS, WIRE LINE CABLE, AND POLISHED ROD GRIP.

With Short Base	27,140#
With Multi-Cylinder Engine Extension	28,040#
With Single-Cylinder Engine and Electric Motor Extension	28,040#
For Leaf-Type Counterweight Cranks, subtract from each of the above weights	5,280#

COUNTERBALANCE DATA — LEAF-TYPE CRANK T27-D320

Number of Weights	Total Counterbalance Effect at Polished Rod (Lbs.)				
	44″ Stroke	54″ Stroke	64″ Stroke	74″ Stroke	84″ Stroke
Cranks Only	4080	3550	3190	2920	2710
Cranks and Master Weights	7060	5980	5230	4690	4270
4	8420	7090	6170	5500	4990
8	9860	8260	7160	6350	5740
12	11380	9500	8200	7260	6540
16	12980	10800	9300	8210	7370
20	14660	12170	10450	9210	8250
24	16410	13600	11660	10250	9170
28	18240	15090	12920	11340	10130
32	20160	16650	14230	12470	11130
36	22140	18270	15600	13660	12170
40		19950	17020	14880	13260
44		21700	18490	16160	14380
48			20020	17480	15540
52			21600	18850	16750
56				20760	18430
60					19730

COUNTERBALANCE DATA — ADJUSTABLE CRANK T27-D320

Max. counterbalance at Max. Stroke with Adjustable Cranks less pocket weights (lbs.)	13,400
Max. counterbalance at Max Stroke with Adjustable Cranks with pocket weights (lbs.)	21,000

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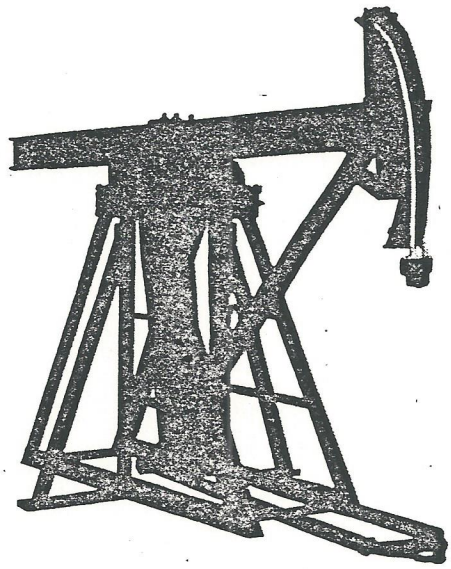

Fig. 30

AMERICAN UNDERPULL PUMPING JACKS

American Underpull Pumping Jacks give long life under full load conditions. Frame and base members of welded steel construction form a rigid assembly braced for maximum strength. Bronze bearings are grooved to carry lubrication the full length of the bearing. Stuffing box and packing make the bearings oil tight and dust proof. The Mulehead can be adjusted over the well by means of set screws at the saddle bearings. Pull strap bearing can be adjusted for stroke variations. All jacks are furnished with a wire line mulehead. Available in the sizes listed below.

Size	Polished Rod Capacity (pounds)	Well End Working Center (inches)	Beam Size (inches)	Height, Bottom Frame to Saddle Bearing (inches)	Maximum Stroke (inches)	Polished Rod to Pull Rod Stroke Ratio		Shipping Weight (pounds)
						Maximum	Minimum	
12	4,500	52	4	58	32	1.26 : 1	1.00 : 1	885
13	6,500	53⅞	5	65½	32	1.35 : 1	.90 : 1	1,231
14	8,000	60	6	65⅞	36	1.35 : 1	.95 : 1	1,302
15	10,000	66	7	72	40	1.40 : 1	1.00 : 1	1,460
16	12,000	74¼	8	77½	44	1.40 : 1	1.03 : 1	2,010
18	16,000	82½	9	77½	56	1.55 : 1	1.14 : 1	2,750
19	20,000	108	12	106	72	1.70 : 1	1.24 : 1	4,454

For complete parts lists on American Underpull Pumping Jacks write for Bulletin No. 31.

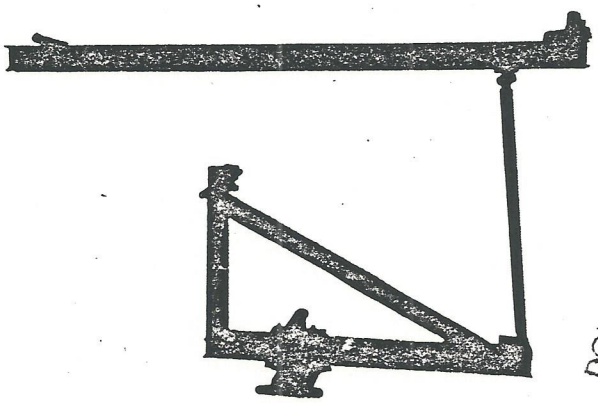

Fig. 31

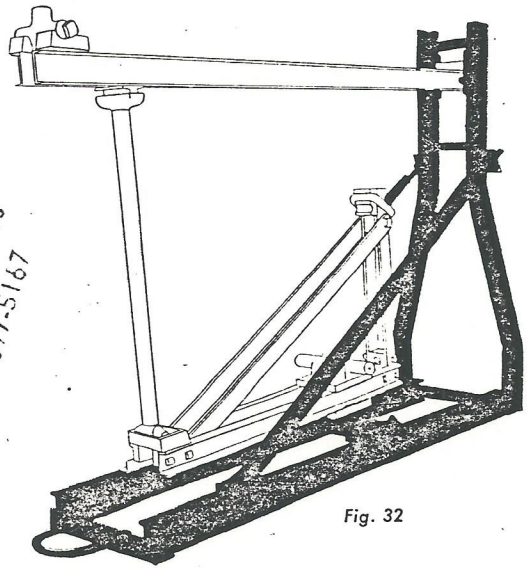

Fig. 32

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AMERICAN OKLAHOMA TYPE JACKS

Size	Stroke (Inches)	Beam Size (Inches)	Length of Beam (Feet)	Weight Complete (Pounds)	
				With Regular Saddle	With Double Improved Saddle
1	30	3	9	400	—
2	30	3	9	470	475
2	30	4	9	500	505
3	30	4	9	582	602
3	30	5	9	608	628
*4	30	5	9	716	766
*4	30	6	9	750	800

*Can be furnished with 6" x 10' Beam if desired.

AMERICAN OKLAHOMA JACK FRAMES

Size	Base Member	Weight Complete (pounds)
1	4" Channel	251
2	5" I Beam	540
3	5" I Beam	540
4	5" I Beam	540

For parts list See Bulletin No. 31

AMERICAN MANUFACTURING COMPANY OF TEXAS

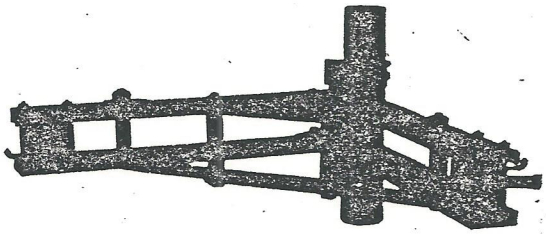


Fig. 20

AMERICAN 30° TO 90° ADJUSTABLE SWING

Size	Pull Rod Capacity (Pounds)	Post Size (Inches)	Weight Complete Less Post (Pounds)
15	10,000	8⅝	808
16	16,000	8⅝	1,023
17	20,000	10¾	1,428

For parts list write for Bulletin No. 41

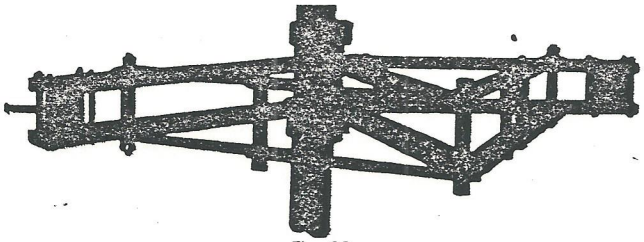


Fig. 21

AMERICAN 100° TO 160° ADJUSTABLE SWING

Size	Pull Rod Capacity (Pounds)	Post Size (Inches)	Weight Complete Less Post (Pounds)
20	10,000	8⅝	1,042
21	16,000	*8⅝	1,222
22	20,000	10¾	1,837

*Also furnished for 10¾" pipe post. When ordering specify size required.

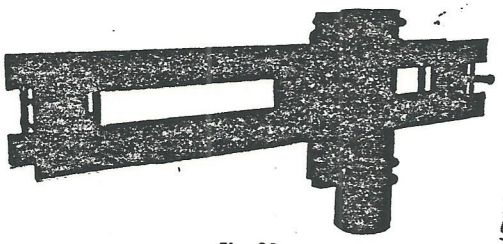


Fig. 22

AMERICAN 180° SWING

Size	Pull Rod Capacity (Pounds)	Post Size (Inches)	Weight Complete Less Post (Pounds)
6A	12,000	*8⅝	1,076
6B	20,000	10¾	1,600

*Also furnished for 10¾" pipe post. When ordering specify size required.

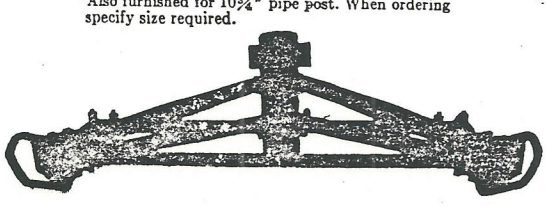


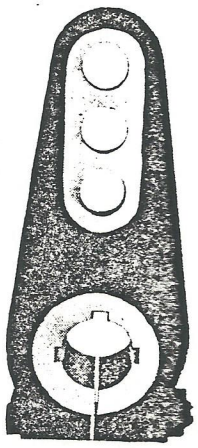
Fig. 23

AMERICAN NO. 3 NON-ADJUSTABLE SWING

Available in No. 3 size and 90° only. Fits 8⅝" O. D. Pipe Post. Weight 445 lbs. For parts list write for Bulletin No. 41.

See Discount Sheet for prices on above items.

AMERICAN CRANKS



American Cranks are semi-steel, split hub type, made with wrist pin holes for 24", 34", and 44" strokes. Hub length is 7¾".

When ordering specify the exact diameter of shaft, width and depth of keyways, and diameter of wrist pin holes. If tapered wrist pin holes are required, specify diameter at each end of hole and crank thickness or diameter at large end, and taper per foot. Keyways are furnished with 90° spacing, unless otherwise ordered.

Fig. 24

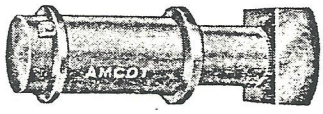


Fig. 25

AMERICAN WRIST PINS

American wrist pins, complete with square nuts, can be made to your specifications.

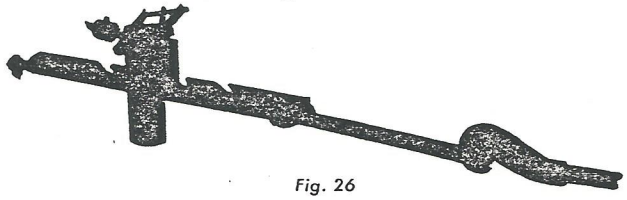


Fig. 26

AMERICAN HOOK-OFF ASSEMBLY

Hook-Off Assemblies are available in the sizes listed below with either Pitman loop for Hook-On notch in Bar, or 42" Stirrup on Bar and cast Steel Hook.

Assembly No.	Type	Notch Center (Inches	Wt. Complete (Pounds)
	For Power Installation		
22	Pitman Loop.....	20	429
35	Stirrup and Hook.....	18	468
	For Back-Slide Installation		
36	Pitman Loop.....	15	393
37	Pitman Loop.....	15	429
19	Stirrup and Hook.....	15	435
20	Stirrup and Hook.....	15	468

For complete parts list on American Hook-Off Assembly write for Bulletin No. 61.

WOOD RUB BLOCKS FOR HOOK-OFF POSTS

Figure 27A illustrates the type for Slide Bar, and Figure 27B the type for Pull Rod. These blocks are made on order to fit the size and weight of casing used. The center oak inserts are standard size and are renewable without removing the entire block or the Rod.

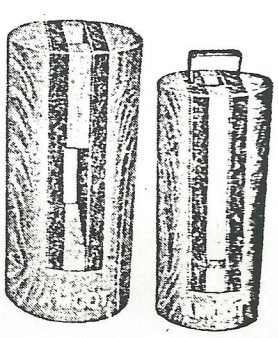


Fig. 27A Fig. 27B