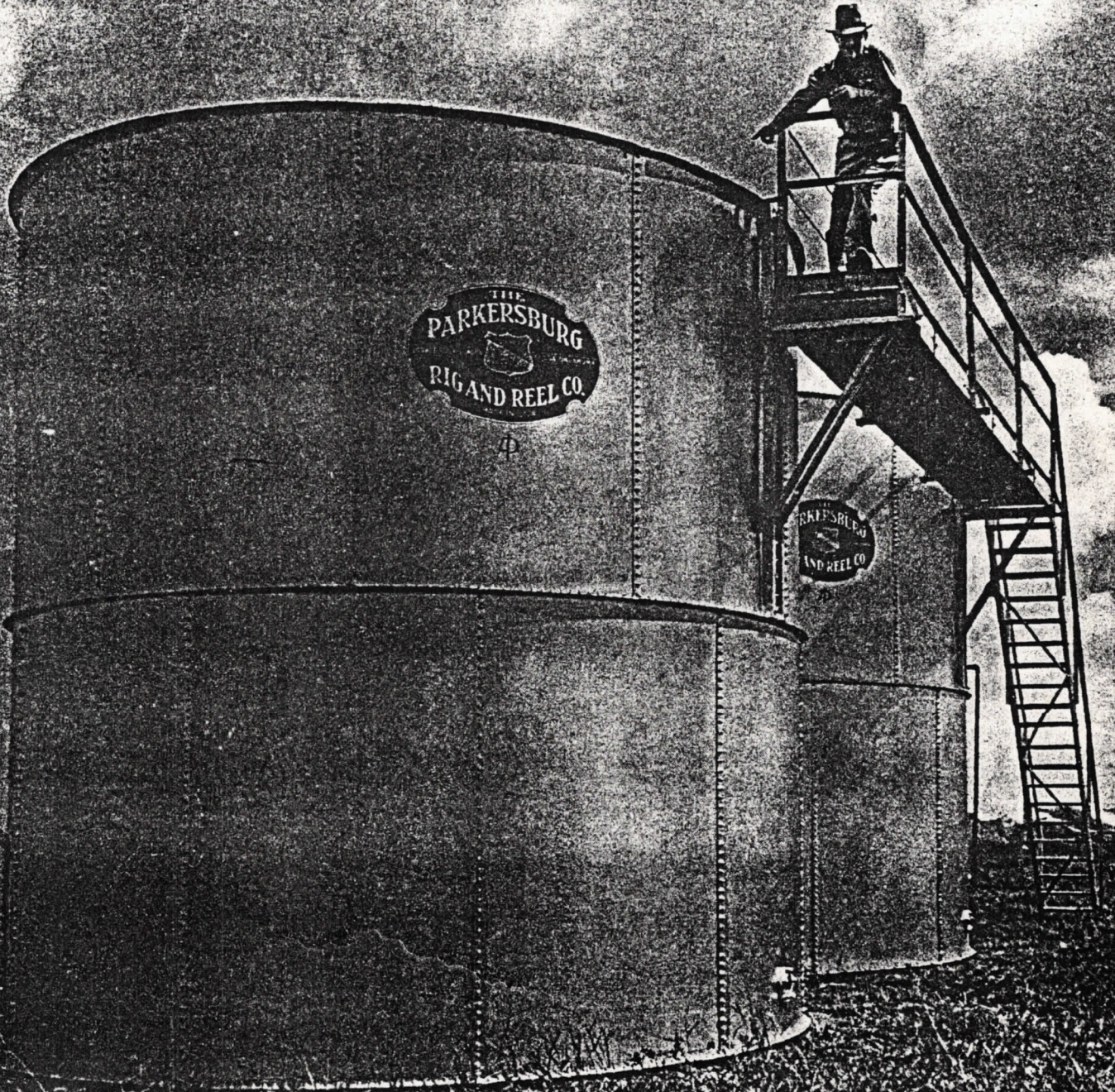




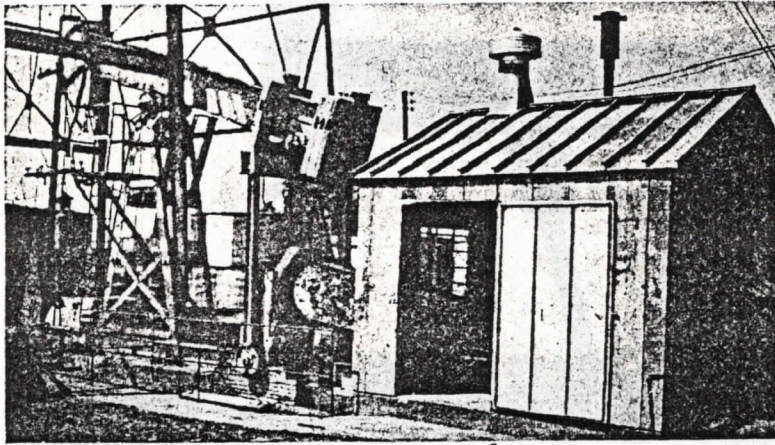
*Quality - Service
Since 1897*



**1942
CATALOG**

THE PARKERSBURG RIG & REEL CO., Parkersburg, West Virginia

PARKERSBURG STEEL BUILDINGS



SPEEDY, ECONOMICAL ERECTION

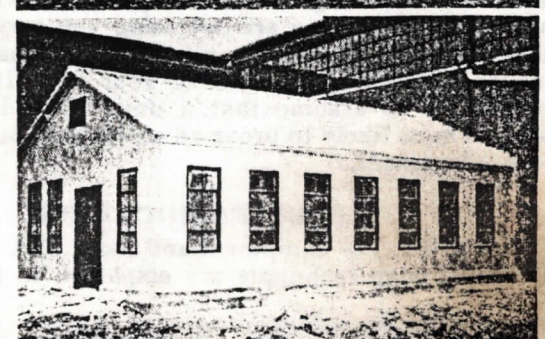
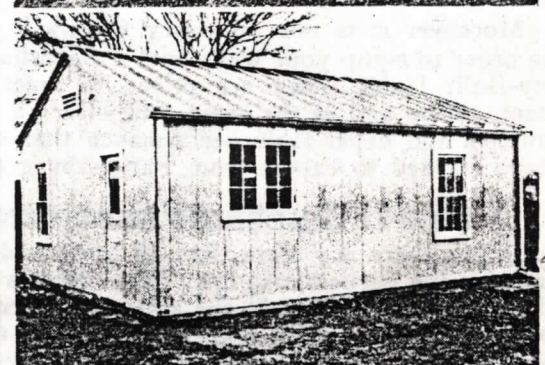
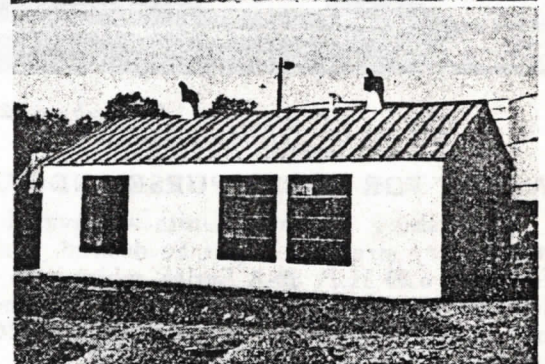
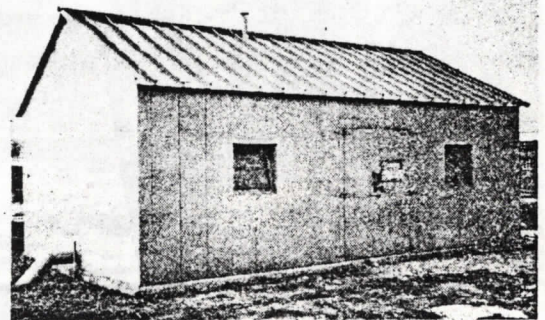
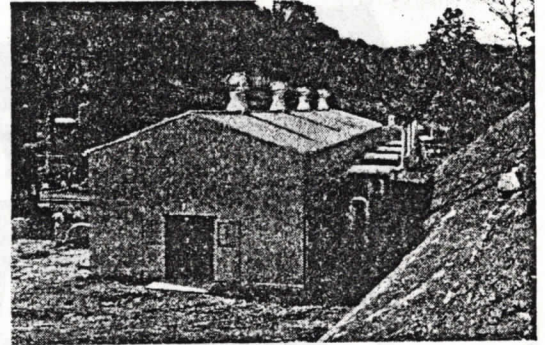
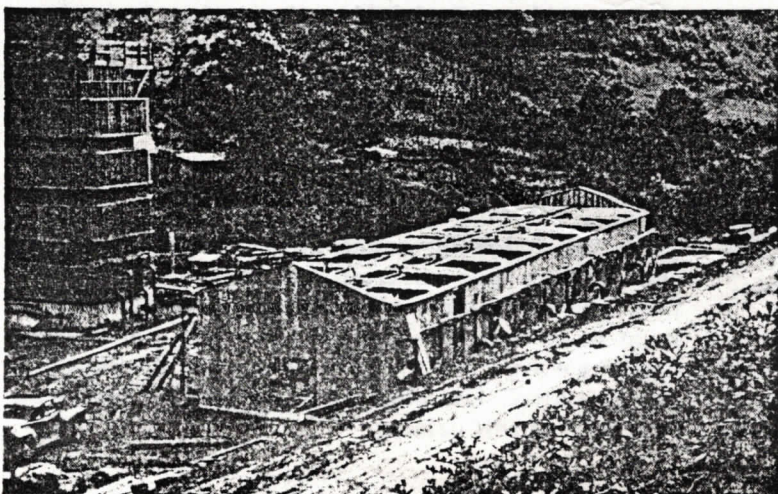
The simplicity of Steelox design makes it unnecessary to employ skilled labor for proper and speedy erection. One man, acting as foreman, who can read blueprints and interpret the simple erection instructions accompanying each installation, can employ ordinary labor and erect a Steelox building in less time than it takes to erect the same size building of different construction.

Steelox Partitions

STEELOX furnishes a very attractive and economical Industrial Partition for Interior Offices, Tool Rooms, Toilet Rooms, Time Offices, etc., as well as for partitioning a building for the segregation of departments, etc. The structural panel design eliminates necessity of furnishing any structural supports as it is entirely self supporting up to 18'0" ceiling heights. Partitions can be furnished with roofs where required, to make a complete enclosure.

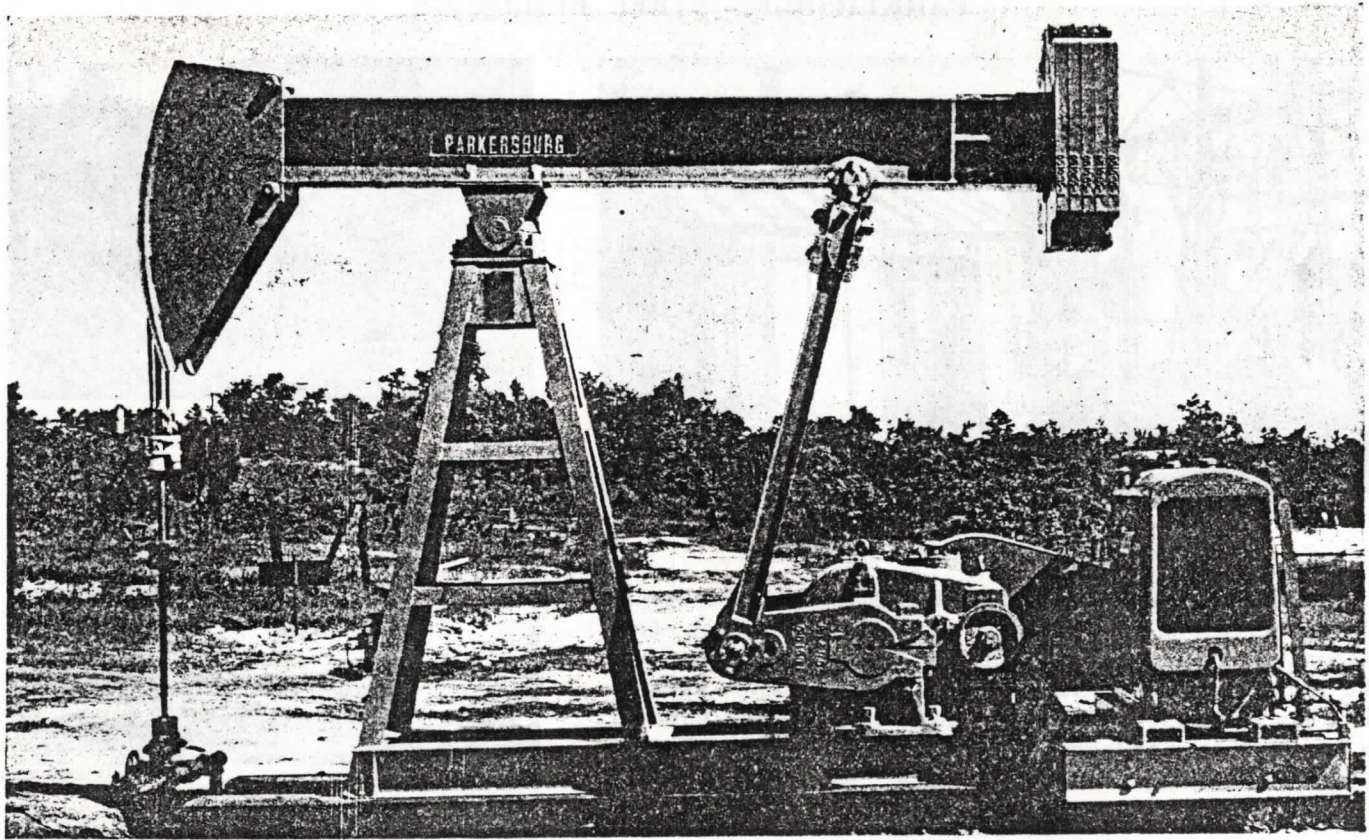
STEELOX sections can be used as a single section partition or can be furnished in a double wall, presenting a smooth surface on both sides.

Write for details for your pump stations, bulk stations, Refinery buildings, gate houses, dock and wharf buildings, machine shops, booster stations, meter houses, gasoline stations, bunk houses, mess halls, tool houses, etc.



THE PARKERSBURG RIG & REEL CO., Parkersburg, West Virginia

PARKERSBURG QUALITY-BUILT PUMPING UNITS



Parkersburg 42-AISI Unit on an East Texas Location.

A UNIT FOR EVERY PURSE AND PURPOSE

Parkersburg Pumping Units are available in almost every size that might be desired. They range from the 5.23 H.P. 32-A Series, which was designed for the shallow production found in some of the newer fields, up to the HYDRONUMATIC with a ten-foot stroke and rated at 65.1 H.P.

Moreover it is not necessary to pay a premium in order to equip your wells with Parkersburg Quality-Built Units. They are priced to meet popular competition and at the same time offer all the high quality and dependable performance that operators have learned to expect from Parkersburg products.

WIDE ENGINEERING EXPERIENCE

In all, there are more than 40 types and sizes of units in the Parkersburg line. The problems and conditions of every field in the country are constantly being studied in order to keep it abreast of the times and complete enough to meet all possible needs. Thus, no matter where you are operating you may be sure that Parkersburg has a unit that is almost "tailor made" to the requirements of your field. It is only reasonable to assume that a unit selected on this basis is most likely to prove an economical and profitable investment.

CAREFUL FABRICATION

The latest type equipment and tools, plus the most advanced shop technique are employed to maintain

a high standard of accuracy and quality in the fabrication of Parkersburg Units. Every step in their production is carefully checked and re-checked in order to make sure that the finished product reflects all the quality that it is possible to achieve with this unusual combination of tools and technique. We make sure that every unit reaches you ready to deliver all the performance and service for which it was designed.

FIELD SERVICE

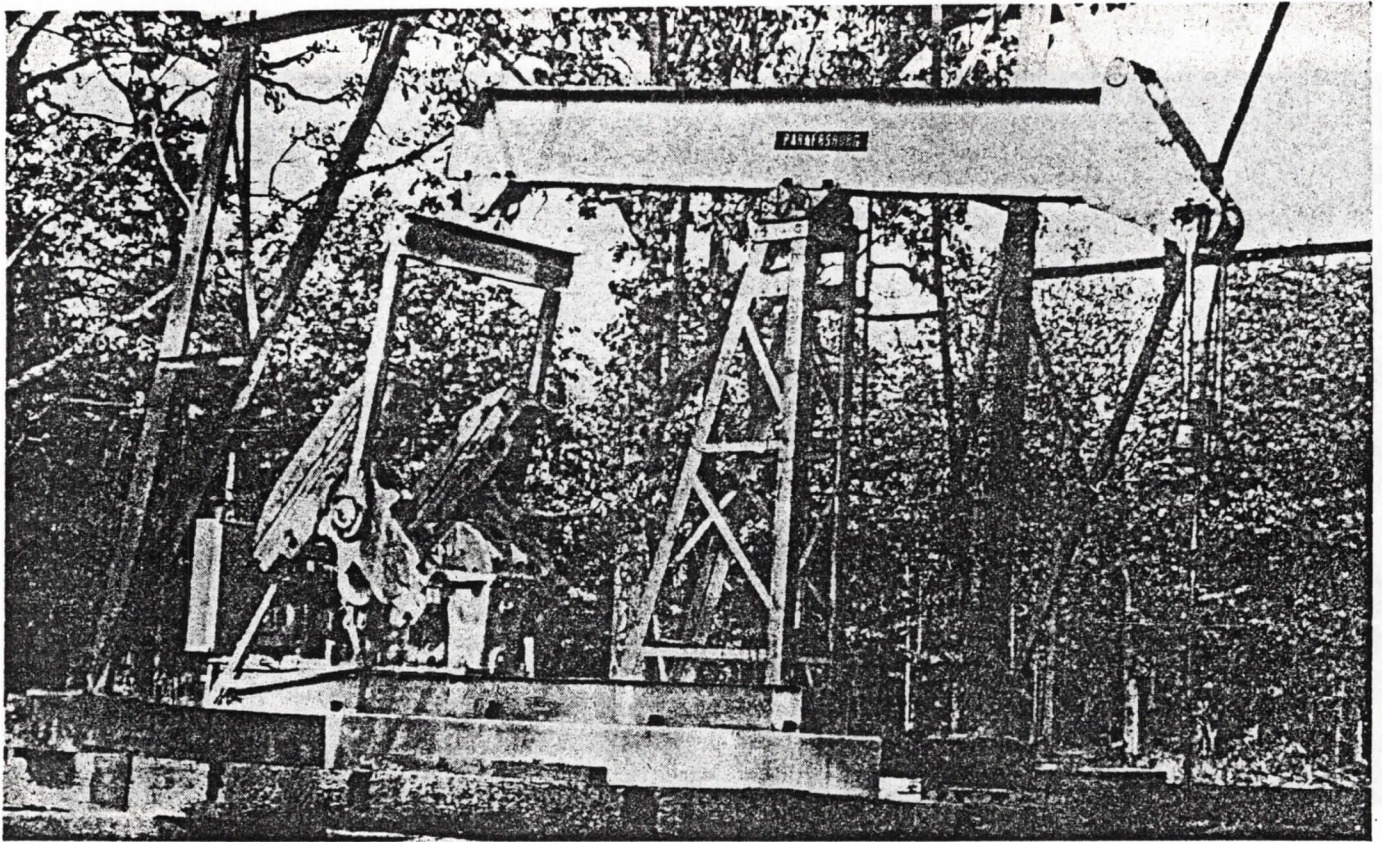
Parkersburg's responsibility and interest does not cease with the closing of a sale. We maintain a country-wide staff of field engineers for the purpose of enabling us to follow the performance of Parkersburg Pumping Units. When you need service it is available without costly delay . . . no farther away than your telephone.

FOR FURTHER DETAILS

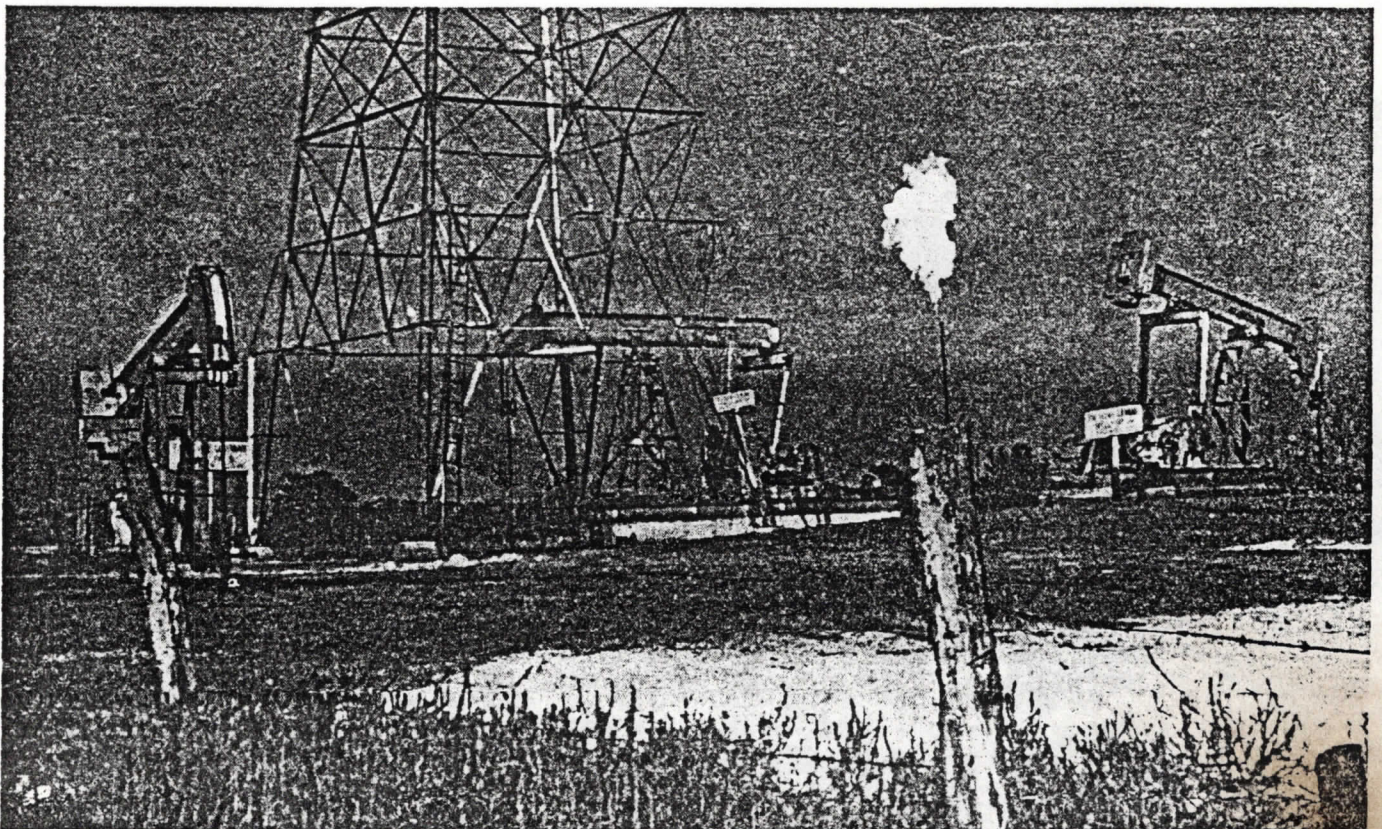
On the following pages you will find drawings and specifications covering the entire Parkersburg line. They are as complete as it is possible to make them in the allotted amount of space. For further details we urge you to call your nearest Parkersburg representative. His phone number will be found on page 1859 of this catalog.

THE PARKERSBURG RIG & REEL CO., Parkersburg, West Virginia

PARKERSBURG PUMPING UNITS



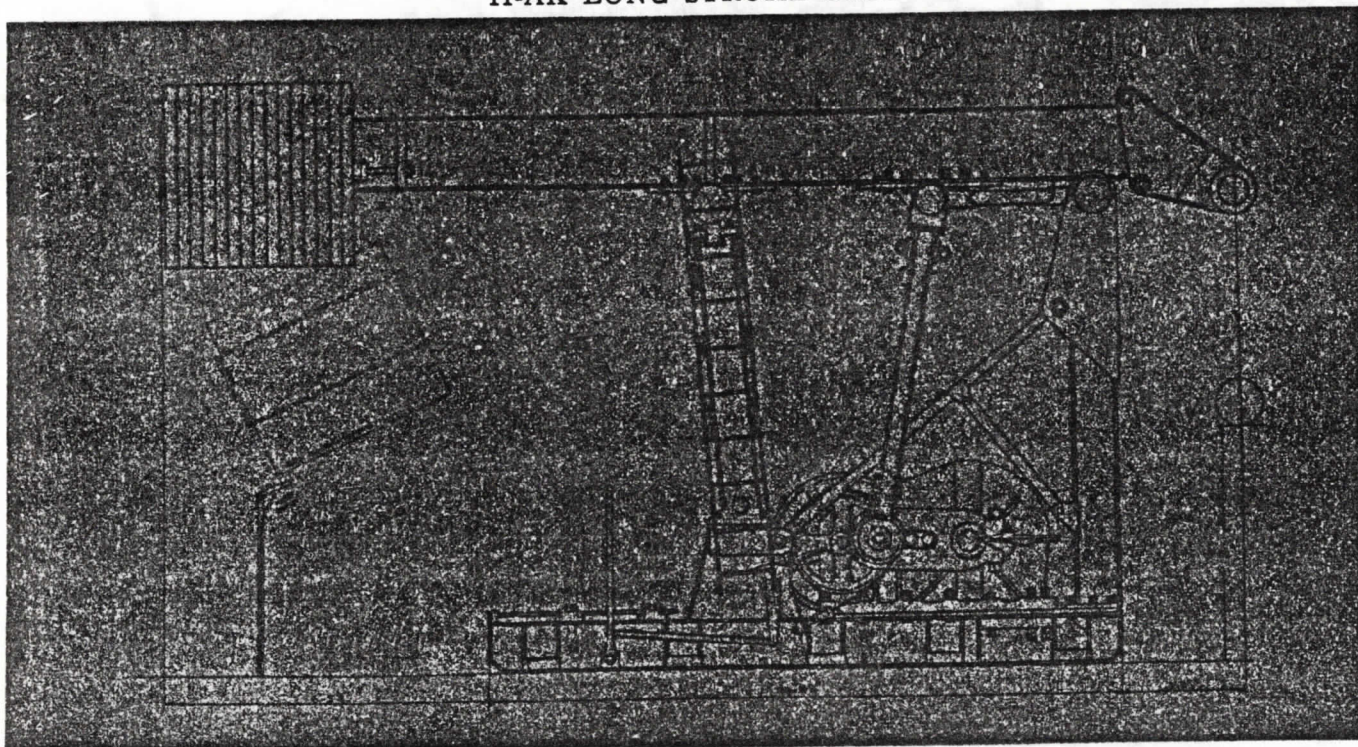
A Parkersburg 48-A1B1 Unit in the Salem, Illinois, pool.



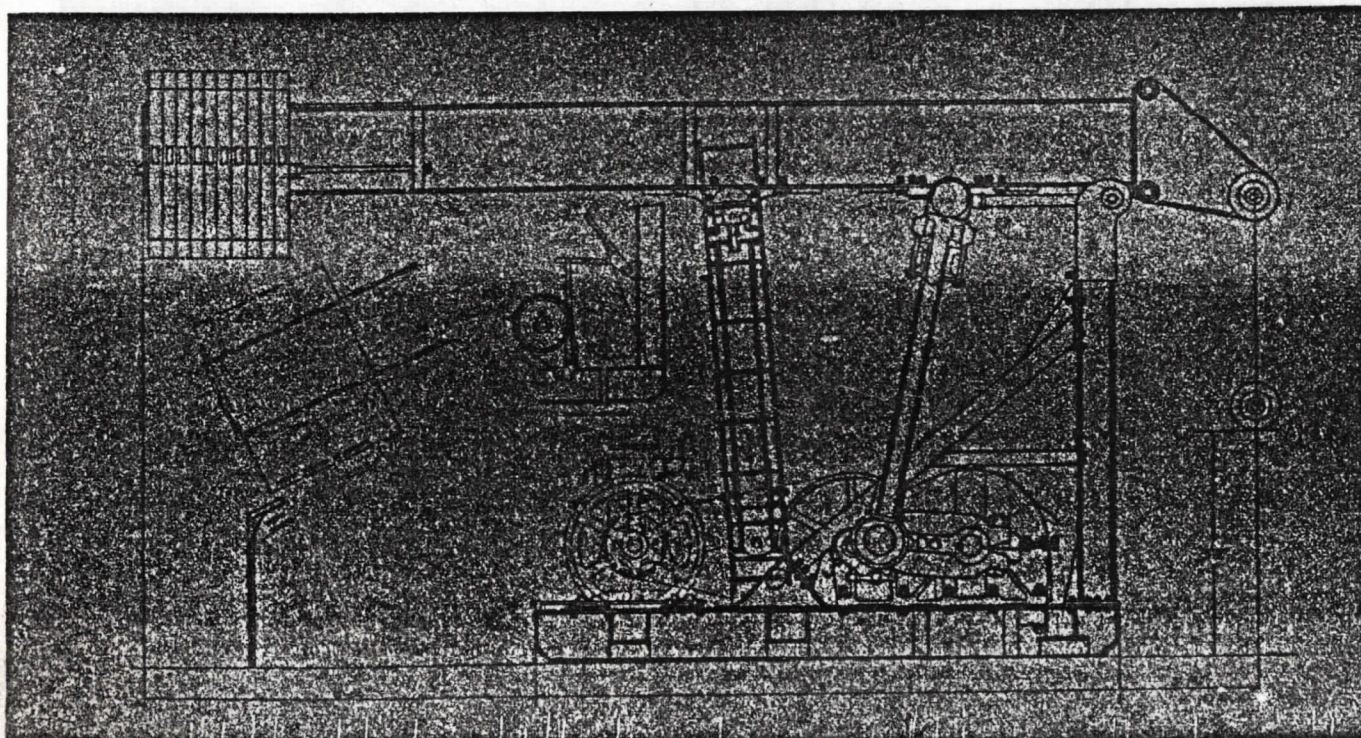
Two Parkersburg 32-ER2 Units and one Parkersburg 54-HC Unit in the Salem, Illinois, pool.

PARKERSBURG PUMPING UNITS

11-AK LONG STROKE UNIT

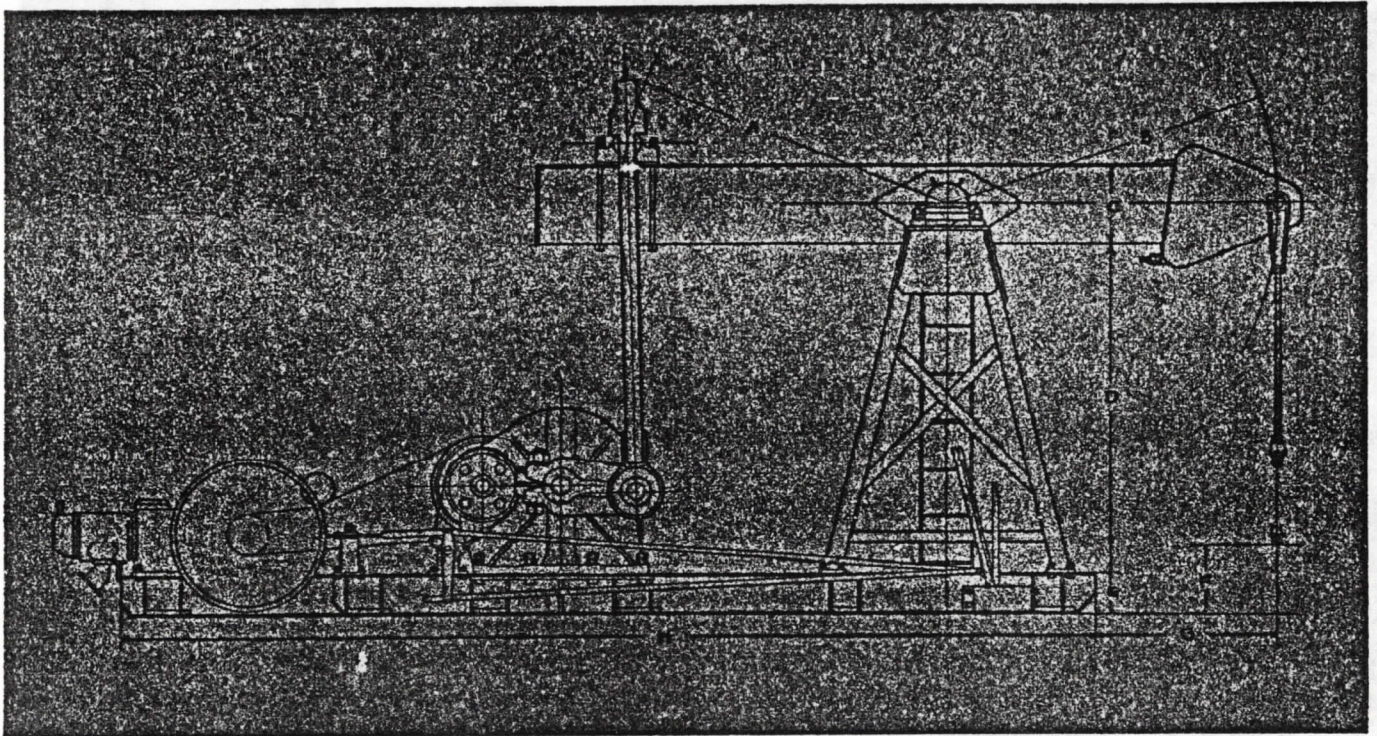


10-AF LONG STROKE UNIT



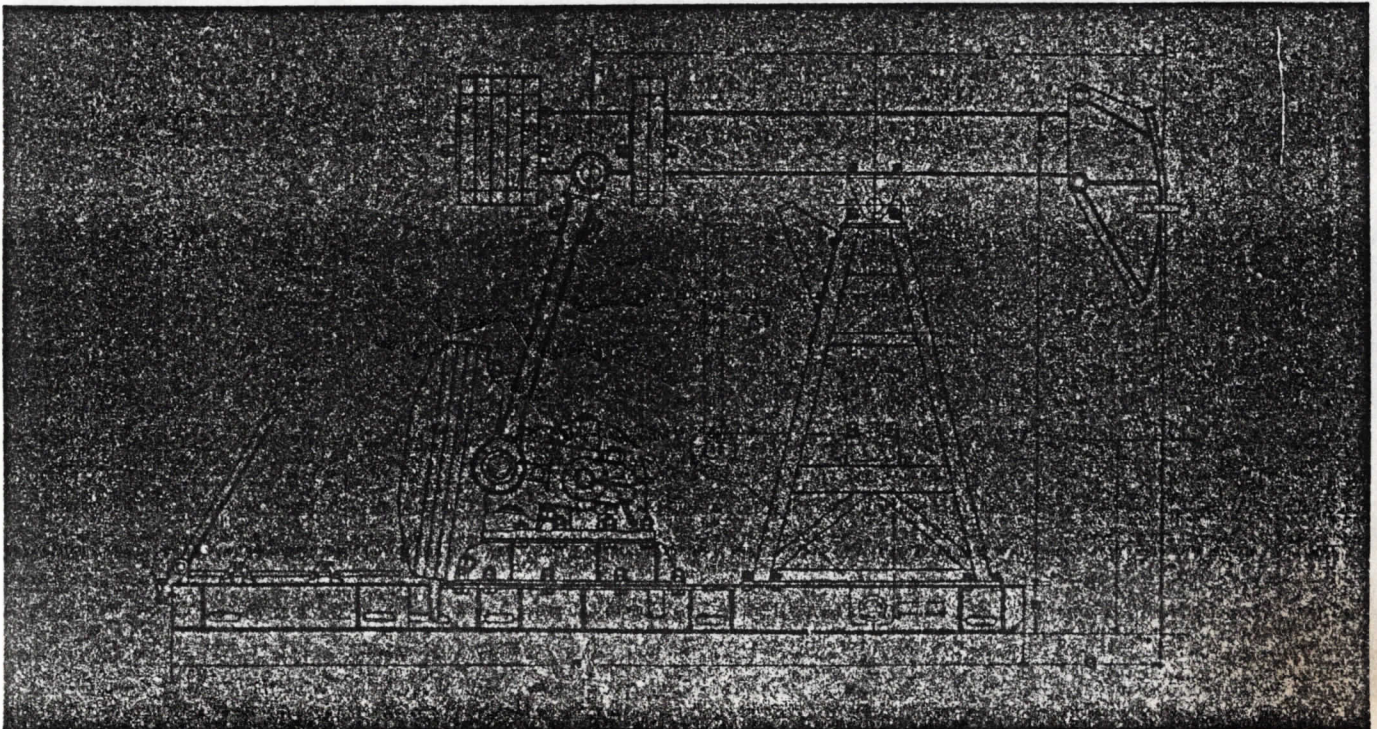
THE PARKERSBURG RIG & REEL CO., Parkersburg, West Virginia

PARKERSBURG PUMPING UNITS
36B, 44A SERIES

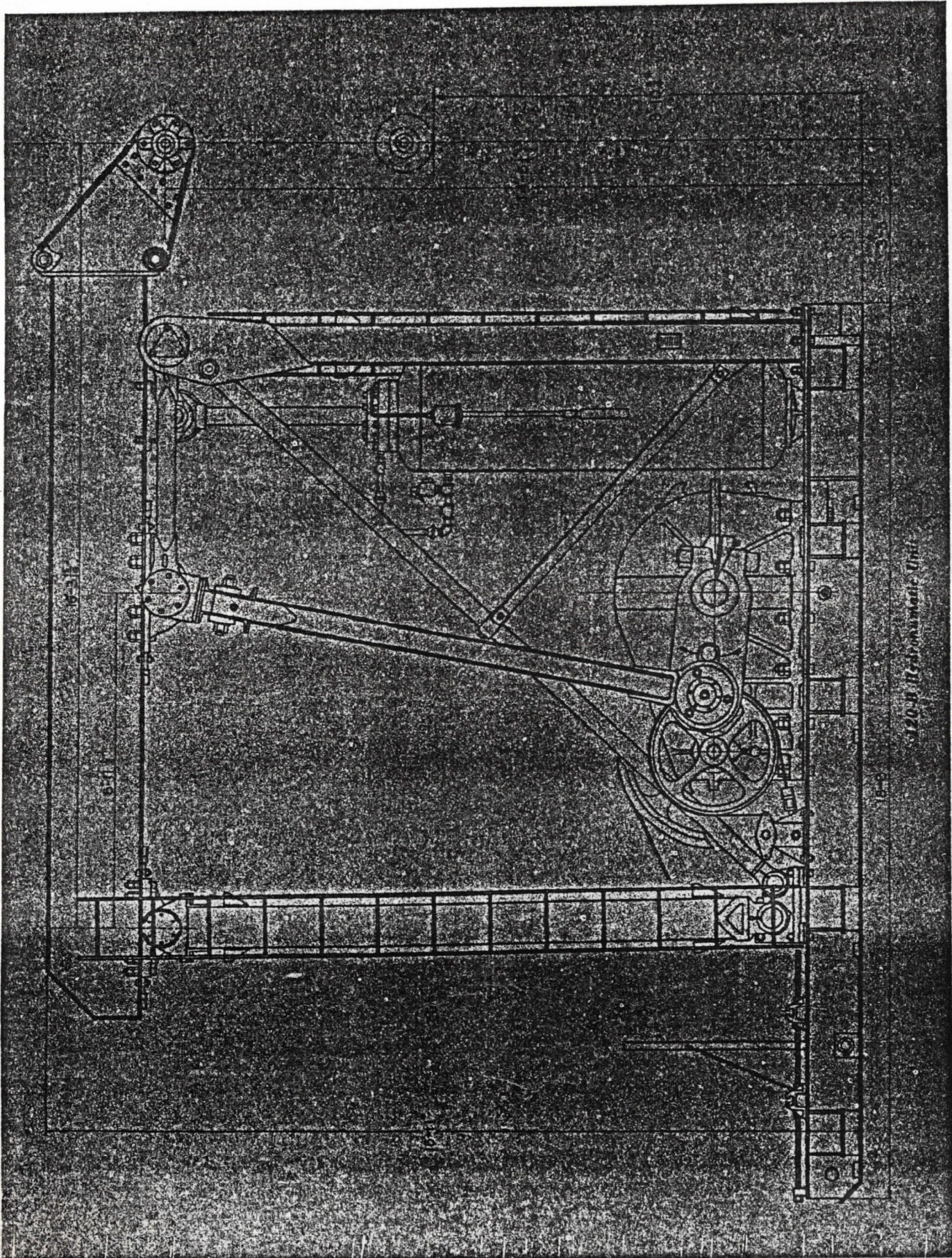


SERIES	"A"	"B"	"C"	"D"	"E"	"F"	"G"	Short Base "H"	Long Base "H"
36B.....	6' 0"	6' 0"	16"	7' 0"	8"	6' 10"	3' 5 1/2"	11' 9 1/4"	15' 10"
44A.....	8' 0"	8' 0"	24"	8' 0"	12"	2' 6"	3' 9 1/2"	.....	24' 1"
44B.....	6' 0"	6' 0"	16"	8' 8"	12"	4' 4"	2' 10"	.....	17' 10"
54K.....	7' 0"	7' 0"	21"	9' 8 1/2"	12"	3' 6"	6' 1 1/2"	.....	16' 4 1/2"

44B, 54K SERIES



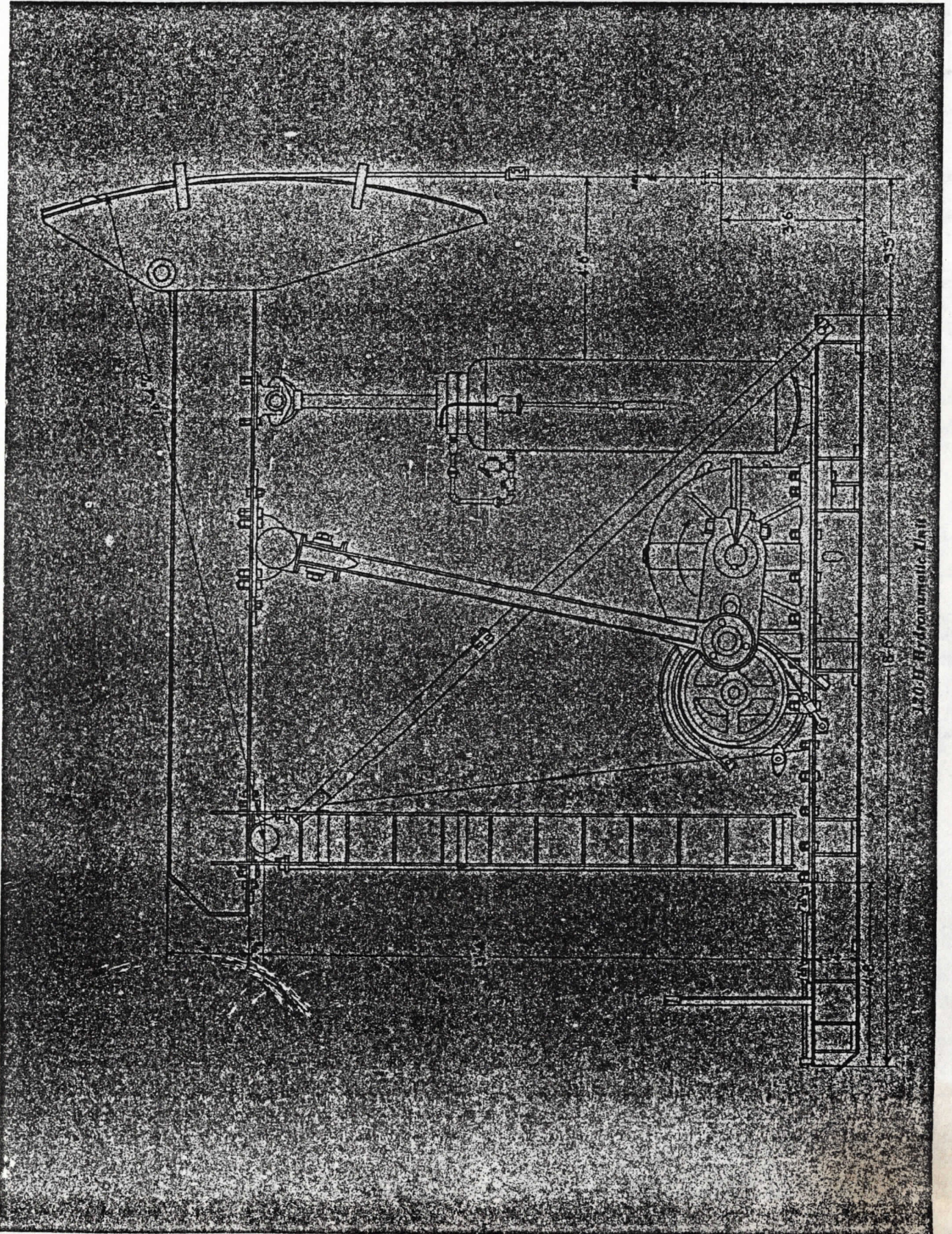
PARKERSBURG PUMPING UNITS



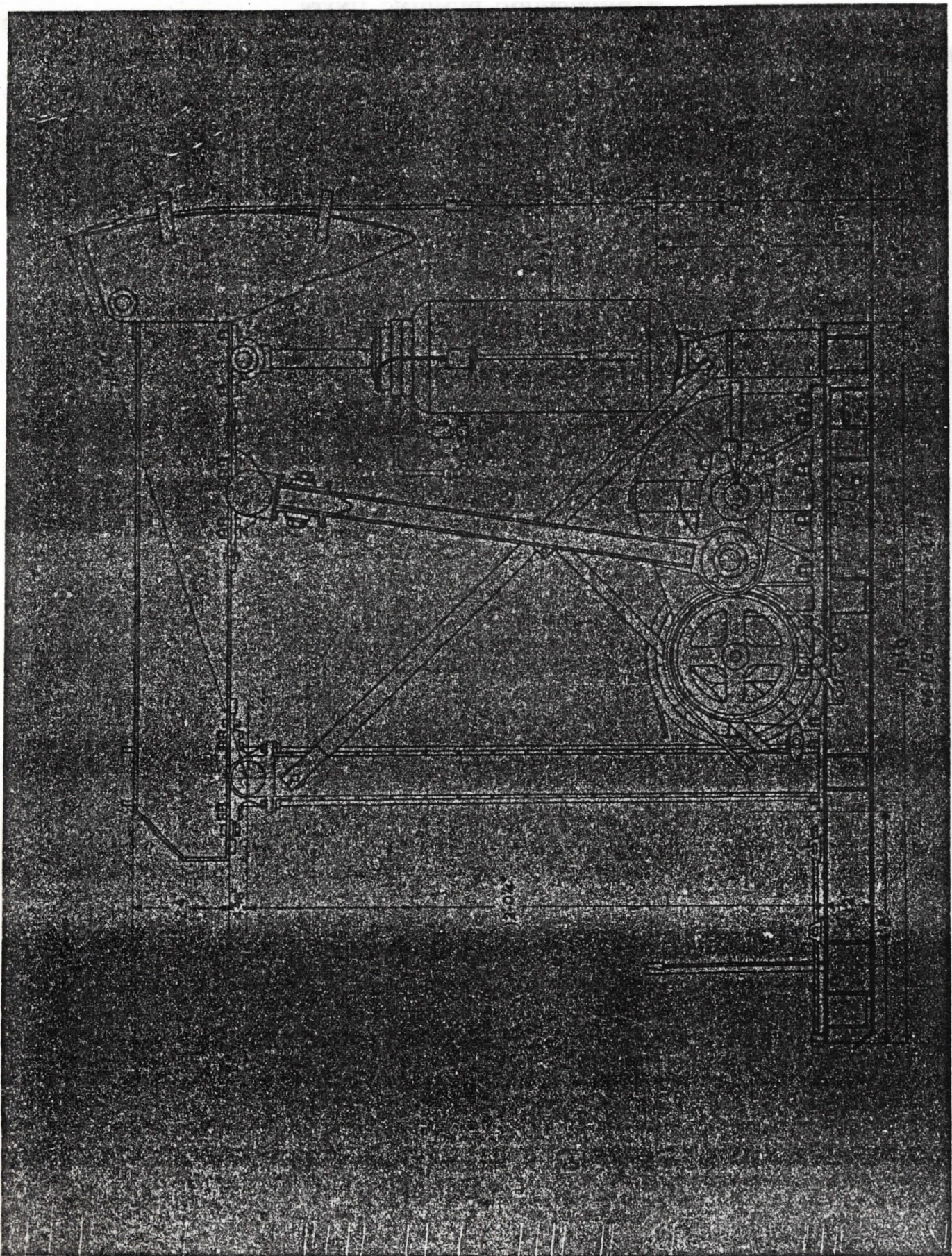
320-H Hydraulic Unit

THE PARKERSBURG RIG & REEL CO., Parkersburg, West Virginia

PARKERSBURG PUMPING UNITS

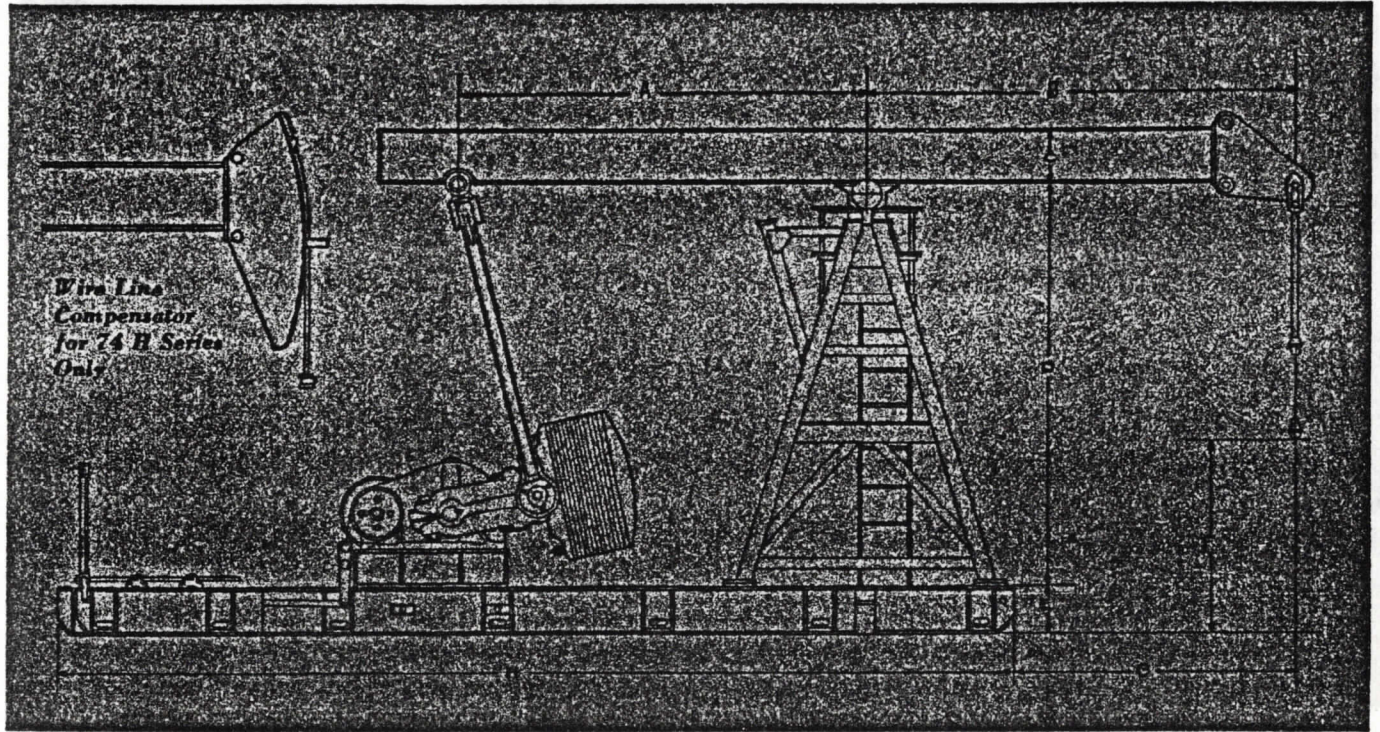


PARKERSBURG PUMPING UNITS



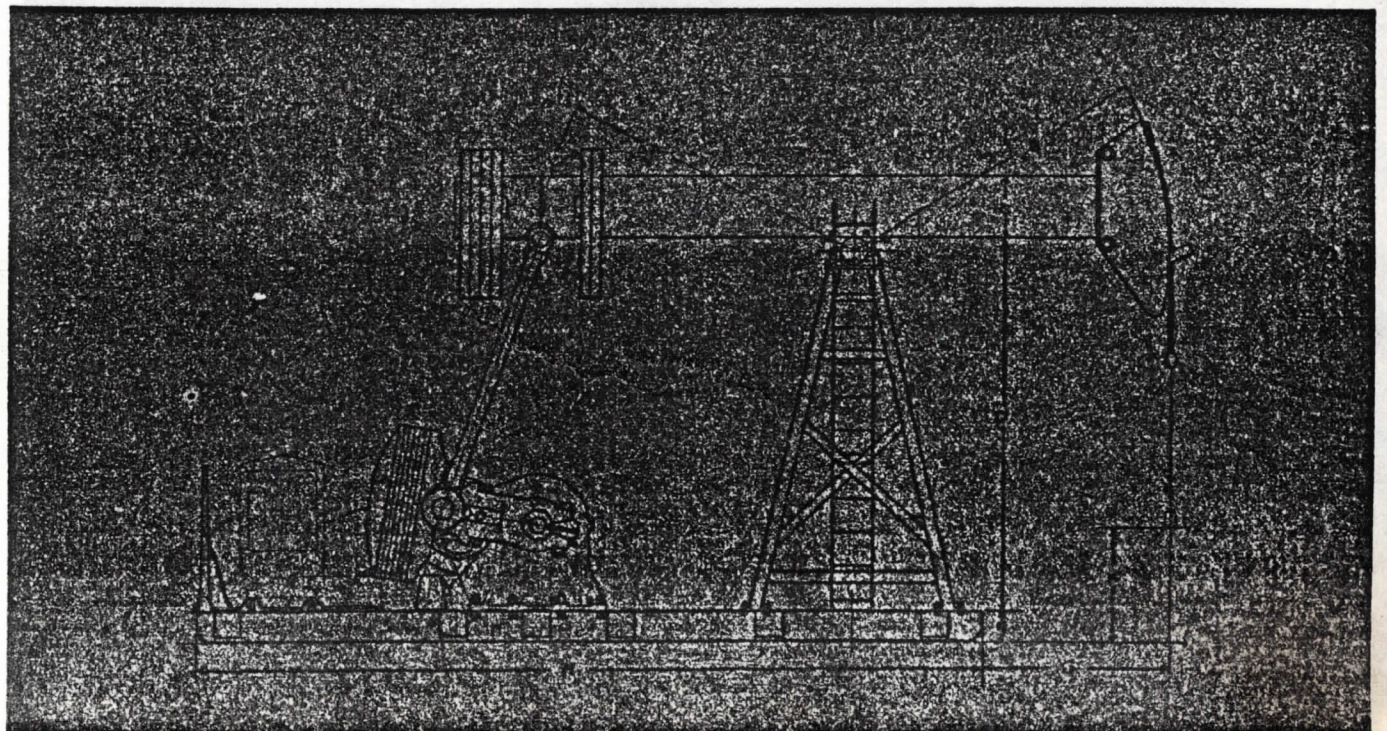
THE PARKERSBURG RIG & REEL CO., Parkersburg, West Virginia

PARKERSBURG PUMPING UNITS
54C, 54H, 54J, 74H, 74D, 74L SERIES



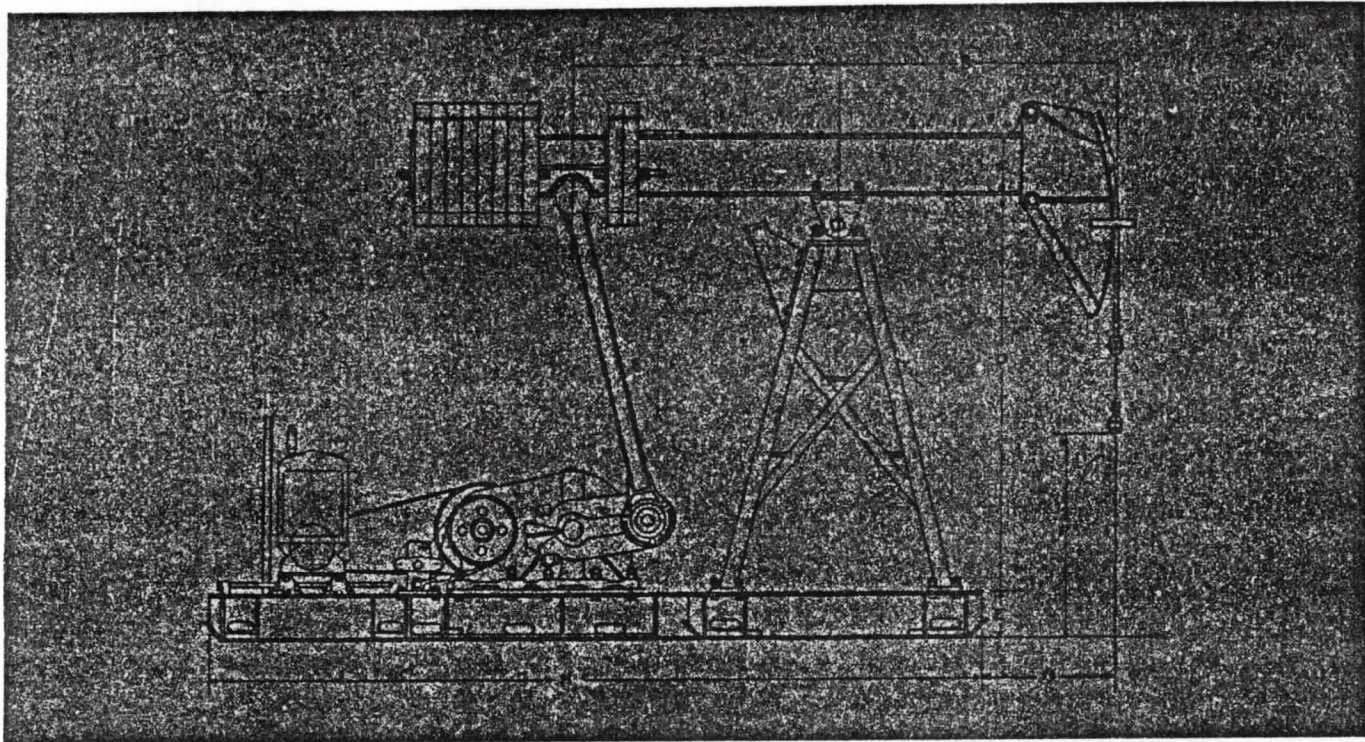
SERIES	"A"	"B"	"C"	"D"	"E"	"F"	"G"	Short Base "H"	Long Base "H"
54C.....	9' 9"	10' 6"	24"	10' 7"	14"	2' 11 1/2"	6' 4 1/2"	20' 0"	.....
54H.....	10' 10"	10' 10"	24"	10' 6"	12"	4' 6"	6' 2"	19' 0 1/2"	23' 3 1/4"
54J.....	10' 0"	10' 0"	24"	10' 6"	12"	4' 6"	6' 2"	.....	23' 3 1/4"
74D.....	8' 8"	9' 10 1/2"	24"	10' 7 1/2"	14"	2' 8 1/2"	5' 7"	.....	24' 2"
74H.....	10' 10"	10' 10"	24"	11' 10 1/2"	12"	3' 8"	5' 10 1/2"	.....	25' 0"
74L.....	12' 6"	12' 6"	24"	14' 7 1/2"	16"	3' 4 1/2"	7' 7 1/2"	23' 7 1/2"	30' 0"
74S.....	10' 10"	10' 10"	24"	11' 10 1/2"	12"	3' 8"	5' 10 1/2"	.....	25' 0"

74-S SERIES



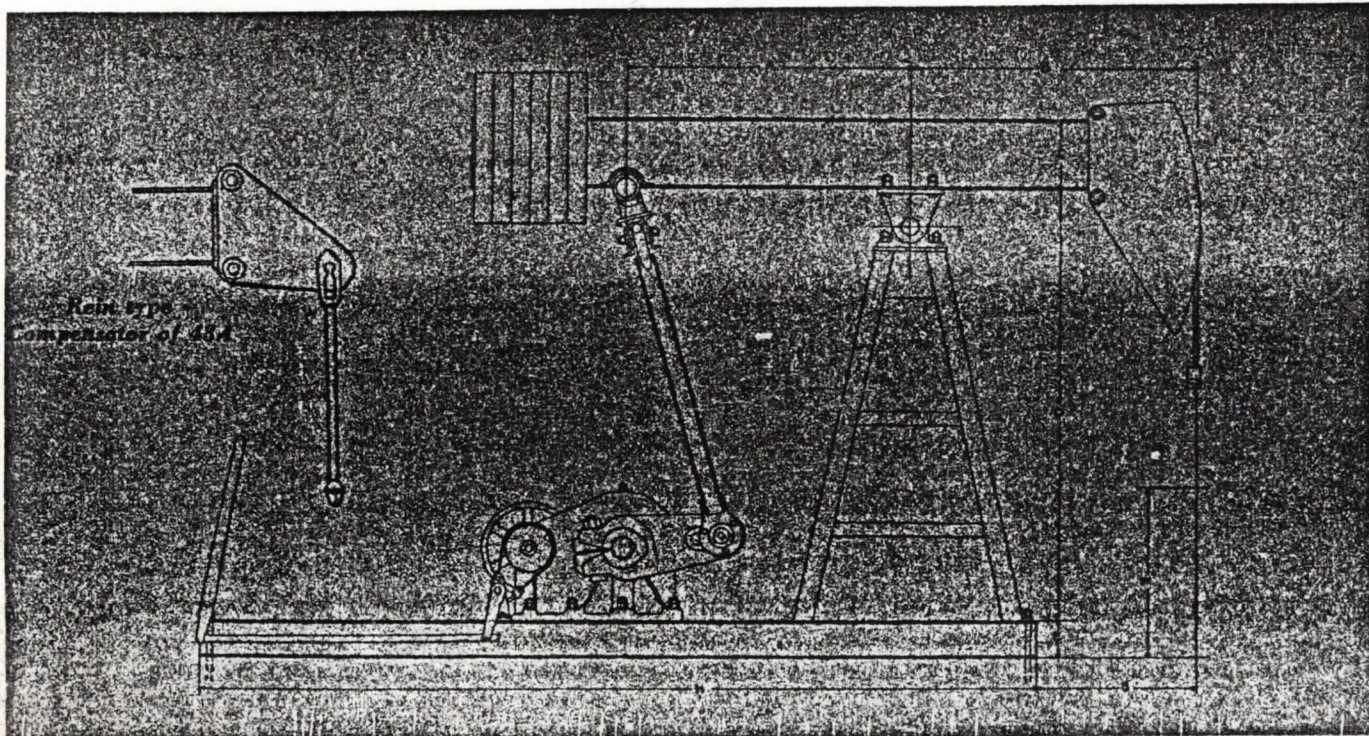
THE PARKERSBURG RIG & REEL CO., Parkersburg, West Virginia

PARKERSBURG PUMPING UNITS
42V SERIES



SERIES	"A"	"B"	"C"	"D"	"E"	"F"	"G"	Short Base "H"	Long Base "H"
32C.....	54", 48", 42"	4' 0"	12"	5' 8 1/4"	8"	2' 11 1/4"	3' 5"	.....	10' 10"
42D.....	5' 0"	5' 0"	14"	7' 2"	8"	2' 6"	2' 11"	9' 4 3/8"	13' 0", 11' 5 1/4"
48A.....	8' 0"	8' 0"	21"	8' 7 1/8"	10"	3' 4"	7' 10 1/8"	11' 4"	14' 10"
48B.....	6' 0"	6' 0"	18"	8' 8"	8"	3' 6"	5' 2"	.....	14' 10"
42V.....	5' 0"	5' 0"	14"	7' 8"	8"	2' 6"	2' 11"	.....	12' 6", 13' 0", 14' 0"
32E.....	54", 48", 42"	4' 0"	12"	5' 8 1/4"	8"	2' 11 1/4"	3' 5"	.....	10' 10"

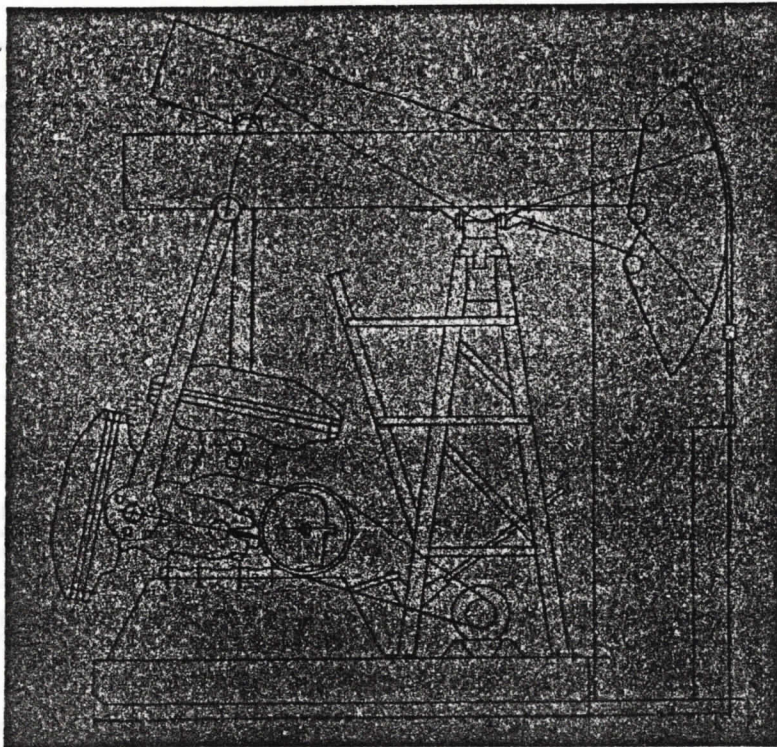
32E, 32C, 42D, 48A, 48B SERIES



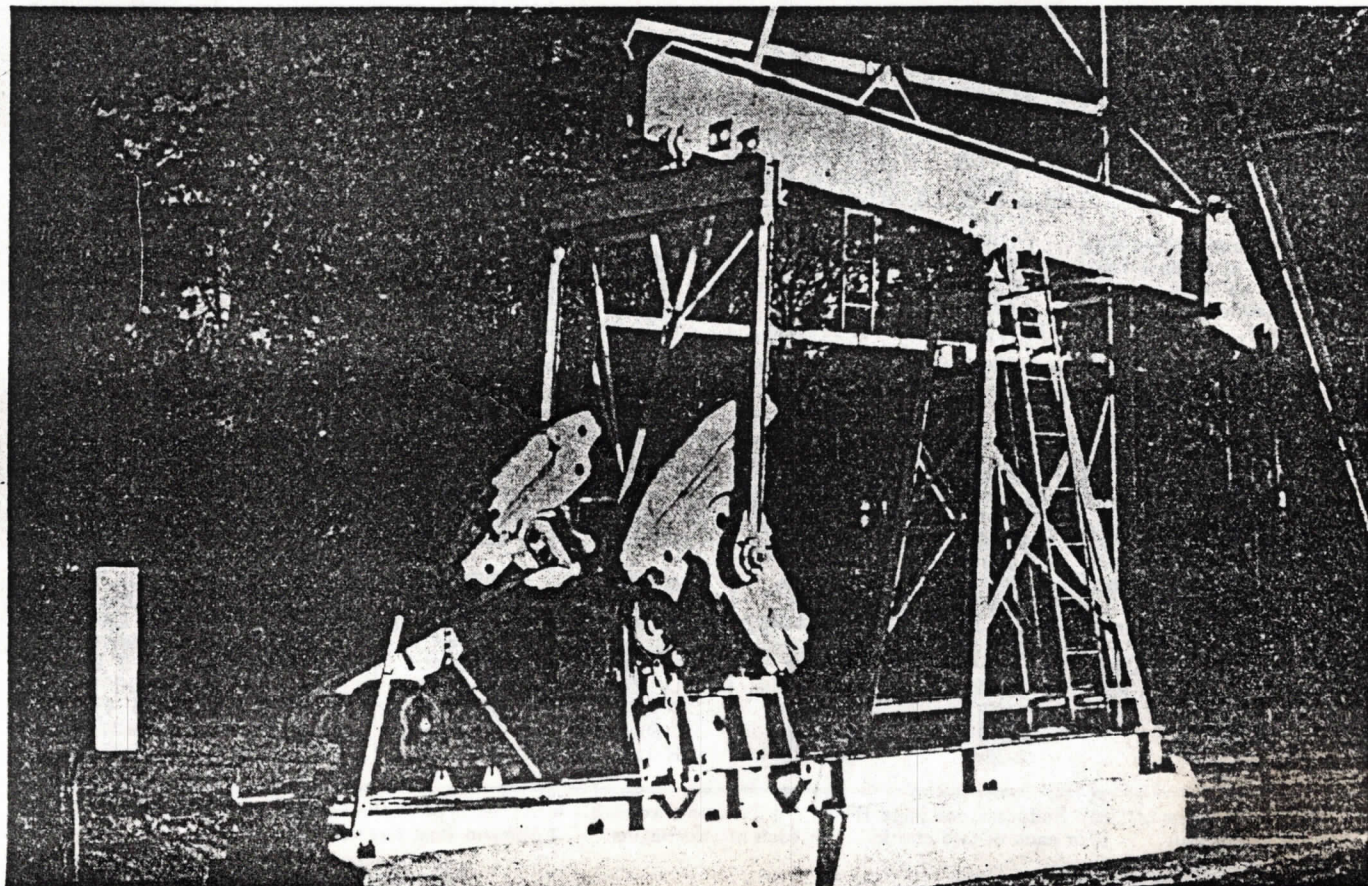
THE PARKERSBURG RIG & REEL CO., Parkersburg, West Virginia

PARKERSBURG PUMPING UNITS

DB54GD, SB54GD SERIES



	"A"	"B"	"C"	"D"	"E"	"F"	"G"	"H"	Long Base "H"
DB54GD	6' 6"	6' 6"	24"	11' 6 $\frac{1}{4}$ "	14"	7' 1"	3' 9"	12' 9"	.....
SB54GD									



A Parkersburg 54 HC Unit near Salem in the Illinois Basin Field

THE PARKERSBURG RIG & REEL CO., Parkersburg, West Virginia

PARKERSBURG PUMPING UNITS

SPECIFICATIONS

	I32CR2	I32ER2	36BUS	36BU	42DS1	42DS1P
Range of Stroke.....	24", 27½", 32"	24", 27½", 32"	19", 27½", 36"	19", 27½", 36"	32", 42"	32", 42"
Beam Load Capacity (A.P.I.)..	6,400 lb	6,400 lb	12,500 lb	11,600 lb	10,300 lb	10,300 lb
Max. Eff. Counterbal.—Crank.	1,280 lb					
Max. Eff. Counterbal.—Beam.	4,165 lb	5,520 lb	7,500 lb	7,500 lb	7,000 lb	7,000 lb
Type of Counterbalance.....	Crank & Beam	Beam	Beam	Beam	Beam	Beam
Size Walking Beam.....	12" @ 25 lb C. B.	12" @ 25 lb C. B.	16" @ 58 lb C. B.	16" @ 58 lb C. B.	14" @ 43 lb C. B.	14" @ 43 lb C. B.
Length of Base.....	10' 10"	10' 10"	11' 9½"	15' 10"	13' 0"	9' 4¾"
Width of Base Across Main Sills	1' 10½"	1' 10½"	1' 10½"	1' 10½"	1' 10¼"	1' 10¼"
Hgt. top W. B. at Samson Post	7' 4¼"	7' 4¼"	9' 0"	9' 0"	9' 0"	9' 0"
Sill Clearance w/ Well.....	3' 5"	3' 5"	3' 5½"	3' 5½"	2' 11"	2' 11"
Weight w/ Reducer.....	3,195 lb	3,173 lb	6,951 lb	7,269 lb	5,350 lb	5,130 lb
*Gear Reducer.....	K-5-30	K-5-30	K-18-10	K-18-10	K-10-30	K-10-30

	42D2B1	42D2B1S	I42D3V	I42D4V	42DV	42D1V
Range of Stroke.....	32", 42"	32", 42"	32", 42"	32", 42"	32", 42"	32", 42"
Beam Load Capacity (A.P.I.)..	10,300 lb	10,300 lb	10,300 lb	10,300 lb	10,300 lb	10,300 lb
Max. Eff. Counterbal.—Crank.				2,180 lb Crank		2,180 lb Crank
Max. Eff. Counterbal.—Beam.	7,000 lb	7,000 lb	7,000 lb	7,000 lb Beam	7,000 lb	4,820 lb Beam
Type of Counterbalance.....	Beam	Beam	Beam	Crank & Beam	Beam	Crank & Beam
Size Walking Beam.....	14" @ 43 lb C. B.	14" @ 43 lb C. B.	14" @ 43 lb C. B.	14" @ 43 lb C. B.	14" @ 43 lb C. B.	14" @ 43 lb C. B.
Length of Base.....	13' 1¾"	9' 4¾"	11' 5¾"	11' 5¾"	13' 0"	13' 0"
Width of Base Across Main Sills	1' 10½"	1' 10½"	1' 10½"	1' 10½"	1' 10¼"	1' 10¼"
Hgt. top W. B. at Samson Post	9' 0"	9' 0"	7' 9⅞"	7' 9⅞"	9' 0"	9' 0"
Sill Clearance w/ Well.....	3' 5"	3' 5"	4' 5¼"	4' 5¼"	2' 11"	2' 11"
Weight w/ Reducer.....	5,586 lb	5,360 lb	5,155 lb	5,403 lb	5,210 lb	5,455 lb
*Gear Reducer.....	K-15-27	K-15-27	K-11½-30	K-11½-30	K-11½-30	K-11½-30

	†42DVP	†42D1VP	42V1S1	†42V3B1	I†42V4B1	44AP
Range of Stroke.....	32", 42"	32", 42"	32", 42"	32", 42"	32", 42"	24", 34", 44"
Beam Load Capacity (A.P.I.)..	10,300 lb	10,300 lb	10,300 lb	10,300 lb	10,300 lb	15,900 lb
Max. Eff. Counterbal.—Crank.		2,180 lb Crank				
Max. Eff. Counterbal.—Beam.	7,000 lb	4,820 lb Beam	7,000 lb	6,550 lb	6,550 lb	11,000 lb
Type of Counterbalance.....	Beam	Crank & Beam	Beam	Beam	Beam	Beam
Size Walking Beam.....	14" @ 43 lb C. B.	14" @ 43 lb C. B.	14" @ 43 lb C. B.	14" @ 43 lb C. B.	14" @ 43 lb C. B.	24" @ 74 lb C. B.
Length of Base.....	9' 4¾"	9' 4¾"	13' 0"	14' 0"	12' 6"	24' 1"
Width of Base Across Main Sills	1' 10½"	1' 10½"	1' 10¼"	1' 10½"	1' 10½"	3' 2"
Hgt. top W. B. at Samson Post	9' 0"	9' 0"	9' 6"	9' 6⅞"	9' 6⅞"	11' 0"
Sill Clearance w/ Well.....	2' 11"	2' 11"	2' 11"	2' 11"	1' 6"	3' 9¾"
Weight w/ Reducer.....	4,975 lb	5,225 lb	4,970 lb	5,497 lb	5,469 lb	15,302 lb
*Gear Reducer.....	K-11½-30	K-11½-30	K-10-30	K-15-27	K-15-27	J-28-9

	44BP	I48AB	I48A1B1	I48A1B1S	I48BB1	54CGS
Range of Stroke.....	24", 34", 44"	28", 38", 48"	28", 38", 48"	28", 38", 48"	28", 38", 48"	34", 44", 54"
Beam Load Capacity (A.P.I.)..	12,500 lb	15,000 lb	12,600 lb	12,600 lb	12,700 lb	21,400 lb
Max. Eff. Counterbal.—Crank	7,100 lb				7,700 lb	none
Max. Eff. Counterbal.—Beam.	4,800 lb	5,360 lb	5,360 lb	5,360 lb	3,596 lb	14,700
Type of Counterbalance.....	Crank & Beam	Crank	Crank	Crank	Crank & Beam	Beam
Size Walking Beam.....	16" @ 58 lb C. B.	21" @ 68 lb C. B.	21" @ 68 lb C. B.	21" @ 68 lb C. B.	18" @ 55 lb C. B.	24" @ 120 lb C. B.
Length of Base.....	17' 3"	14' 10"	14' 10"	11' 4"	14' 10"	20' 0"
Width of Base Across Main Sills	3' 2"	2' 5¾"	1' 10½"	1' 10½"	1' 10½"	3' 2"
Hgt. top W. B. at Samson Post	11' 0"	11' 2⅜"	11' 2⅜"	11' 2⅜"	11' 0"	13' 9"
Sill Clearance w/ Well.....	2' 10"	7' 0⅜"	7' 0⅜"	7' 0⅜"	5' 2"	6' 4½"
Weight w/ Reducer.....	11,890 lb	8,050 lb	7,561 lb	7,398 lb	7,145 lb	18,574 lb
*Gear Reducer.....	J-28-9	J-15-27	K-15-27	K-15-27	K-15-27	J-37-10

* For specifications of Gear Reducers, see page 1903. † This unit available w/bolted type brake control cross-over shaft. ‡ Single crank unit. § For each of two cranks. For each of two beams. ¶ Samson Post has vertical front leg.

THE PARKERSBURG RIG & REEL CO., Parkersburg, West Virginia

PARKERSBURG PUMPING UNITS

SPECIFICATIONS

	54CLS	DB54GD	SB54GD	54HG	54HP	54HPS
Range of Stroke.....	34", 44", 54"	34", 44", 54"	34", 44", 54"	34", 44", 54"	34", 44", 54"	34", 44", 54"
Beam Load Capacity (A.P.I.)..	21,400 lb	20,800 lb	20,800 lb	19,000 lb	19,000 lb	19,000 lb
Max. Eff. Counterbal.—Crank	None	\$2,855 lb	6,585 lb	10,335 lb	10,335 lb	10,335 lb
Max. Eff. Counterbal.—Beam.	11,500	\$5,870 lb	5,870 lb	2,370 lb	2,370 lb	2,370 lb
Type of Counterbalance.....	Beam	Crank & Beam	Crank & Beam	Crank & Beam	Crank & Beam	Crank & Beam
Size Walking Beam.....	24" @ 120 lb C.B.	24" @ 74 lb C.B.	24" @ 74 lb C.B.	24" @ 100 lb C.B.	24" @ 100 lb C.B.	24" @ 100 lb C.B.
Length of Base.....	20' 0"	12' 9"	12' 9"	23' 3 1/4"	23' 3 1/4"	19' 0 1/2"
Width of Base Across Main Sills	3' 2"	3' 2"	3' 2"	3' 2"	3' 2"	3' 2"
Hgt. top W. B. at Samson Post	13' 9"	14' 8 3/8"	14' 8 3/8"	13' 6"	13' 6"	13' 6"
Sill Clearance w/ Well.....	6' 4 1/2"	3' 9"	3' 9"	6' 2"	6' 2"	6' 2"
Weight w/ Reducer.....	19,963 lb	19,231 lb	15,432 lb	14,470 lb	14,000 lb	13,745 lb
*Gear Reducer.....	S-53-10	J-27-27	J-27-27	J-37-10	J-28-9	J-28-9

	54JU	154KC1	66HF	66HK	74DJ	74HH
Range of Stroke.....	34", 44", 54"	34", 44", 54"	46", 66"	46", 66"	38", 50", 62", 74"	44", 54", 64", 74"
Beam Load Capacity (A.P.I.)..	19,000 lb	15,200 lb	30,000 lb	30,000 lb	27,500 lb	19,000 lb
Max. Eff. Counterbal.—Crank	10,335 lb	8,300 lb	17,500 lb	17,500 lb	6,000 lb	9,500 lb
Max. Eff. Counterbal.—Beam.	2,370 lb	4,800 lb	17,500 lb	17,500 lb	10,200 lb	13,610 lb
Type of Counterbalance.....	Crank & Beam	Crank & Beam	Hydronumatic	Hydronumatic	Crank & Beam	Crank & Beam
Size Walking Beam.....	24" @ 100 lb C.B.	21" @ 68 lb C.B.	24" @ 74 lb	24" @ 74 lb	24" @ 100 lb	24" @ 100 lb C.B.
Length of Base.....	23' 3 1/4"	16' 4 3/8"	15' 0"	15' 0"	24' 2"	25' 0"
Width of Base Across Main Sills	2' 3"	2' 6"	2' 8 3/4"	2' 8 3/4"	3' 2"	3' 6"
Hgt. top W. B. at Samson Post	13' 6"	12' 5 1/8"	15' 5"	15' 5"	13' 9 1/4"	14' 10 1/2"
Sill Clearance w/ Well.....	6' 2"	6' 1 5/8"	2' 6"	2' 6"	5' 7"	5' 10 1/2"
Weight w/ Reducer.....	11,318 lb	9,667 lb	20,968 lb	23,239 lb	20,210 lb	17,604 lb
*Gear Reducer.....	K-18-10	K-20-26	J-30-33	J-53-30	J-49-20	J-40-20

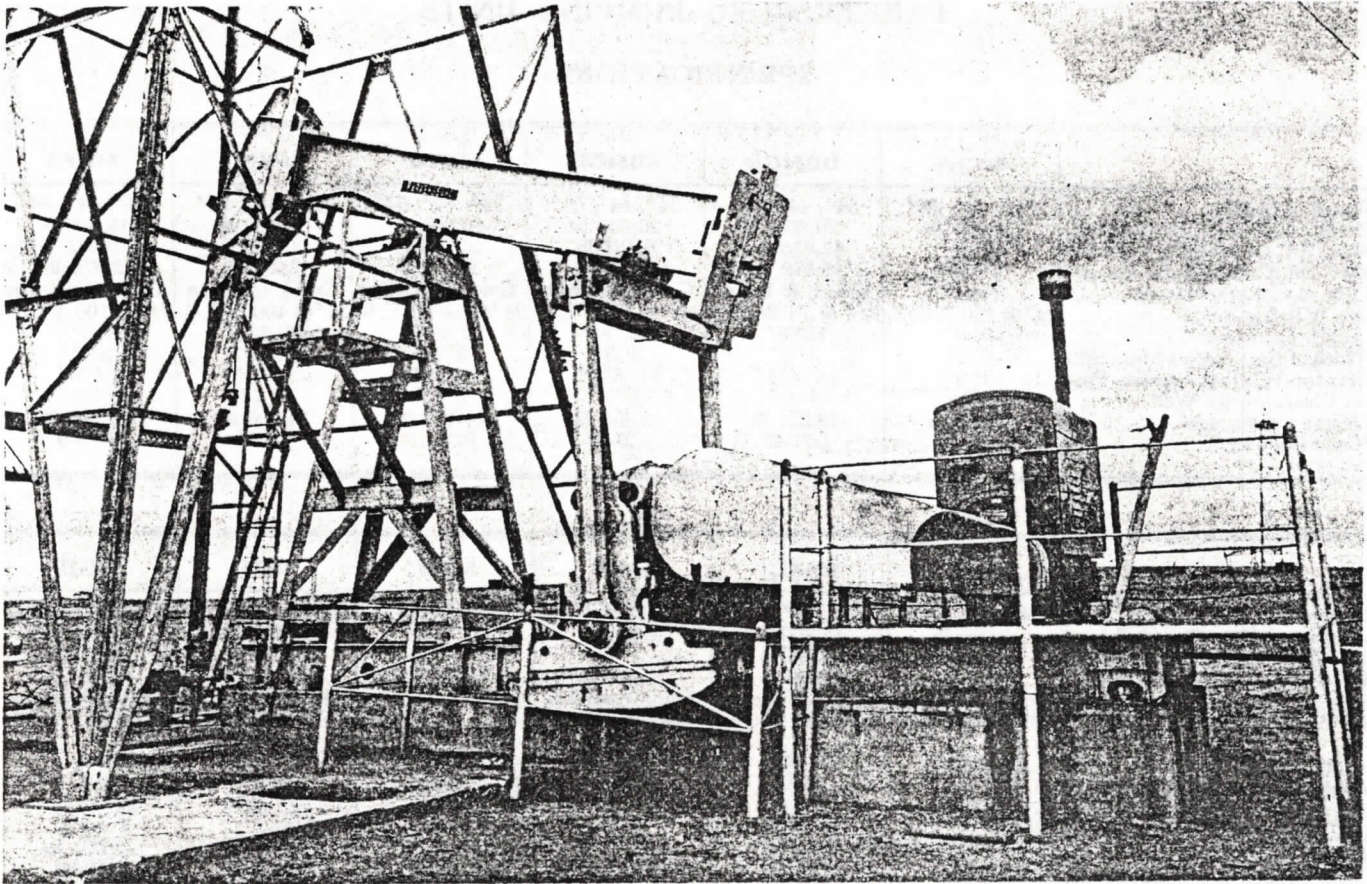
	74LJ	74LLS	†74SH	10AF	10HF
Range of Stroke.....	34", 44", 54", 64", 74"	34", 44", 54", 64", 74"	44", 54", 64", 74"	66", 84", 102", 120"	66", 84", 102", 120"
Beam Load Capacity (A.P.I.)..	24,400 lb	24,400 lb	19,000 lb	20,000 lb	30,000 lb
Max. Eff. Counterbal.—Crank	14,400 lb	11,950 lb	4,000 lb	12,800 lb	12,800 lb
Max. Eff. Counterbal.—Beam.	10,265 lb	10,465 lb	13,600 lb	Beam	Beam
Type of Counterbalance.....	Crank & Beam	Crank & Beam	Crank & Beam	24" @ 74 lb	24" @ 100 lb
Size Walking Beam.....	24" @ 120 lb	24" @ 120 lb	24" @ 100 lb C.B.	Man-Ten	Man-Ten
Length of Base.....	30' 0"	23' 7 1/2"	25' 0"	13' 6"	13' 6"
Width of Base Across Main Sills	3' 2"	3' 2"	3' 6"	2' 6"	2' 6"
Hgt. top W. B. at Samson Post	17' 11 3/4"	17' 11 3/4"	14' 10 1/2"	13' 2"	13' 2"
Sill Clearance w/ Well.....	7' 7 1/2"	7' 7 1/2"	5' 10 1/2"	3' 2"	3' 2"
Weight w/ Reducer.....	20,440 lb	20,674 lb	16,643 lb	19,880 lb	20,524 lb
*Gear Reducer.....	J-49-20	S-53-10	J-40-20	J-30-33	J-30-33

	11AK	120BF	120BK	120HF	120HK
Range of Stroke.....	60", 84", 108", 132"	72", 96", 120"	72", 96", 120"	72", 96", 120"	72", 96", 120"
Beam Load Capacity (A.P.I.)..	30,000 lb	30,000 lb	30,000 lb	30,000 lb	30,000 lb
Max. Eff. Counterbal.—Crank.	16,600 lb	16,600 lb	16,600 lb	16,600 lb	16,600 lb
Max. Eff. Counterbal.—Beam.	Beam	Hydronumatic	Hydronumatic	Hydronumatic	Hydronumatic
Type of Counterbalance.....	Beam	Hydronumatic	Hydronumatic	Hydronumatic	Hydronumatic
Size Walking Beam.....	24" @ 100 lb	24" @ 100 lb	24" @ 100 lb	24" @ 100 lb	24" @ 100 lb
Length of Base.....	Man-Ten	Man-Ten	Man-Ten	Man-Ten	Man-Ten
Width of Base Across Main Sills	16' 4"	18' 6"	18' 6"	18' 6"	18' 6"
Hgt. top W. B. at Samson Post	2' 9 1/2"	2' 9 1/2"	2' 9 1/2"	2' 9 1/2"	2' 9 1/2"
Sill Clearance w/ Well.....	14' 7"	16' 11"	16' 11"	16' 11"	16' 11"
Weight w/ Reducer.....	3' 2"	3' 5"	3' 5"	3' 5"	3' 5"
*Gear Reducer.....	29,069 lb	28,375 lb	30,811 lb	24,525 lb	26,630 lb
	J-53-30	J-30-33	J-53-30	J-30-33	J-53-30

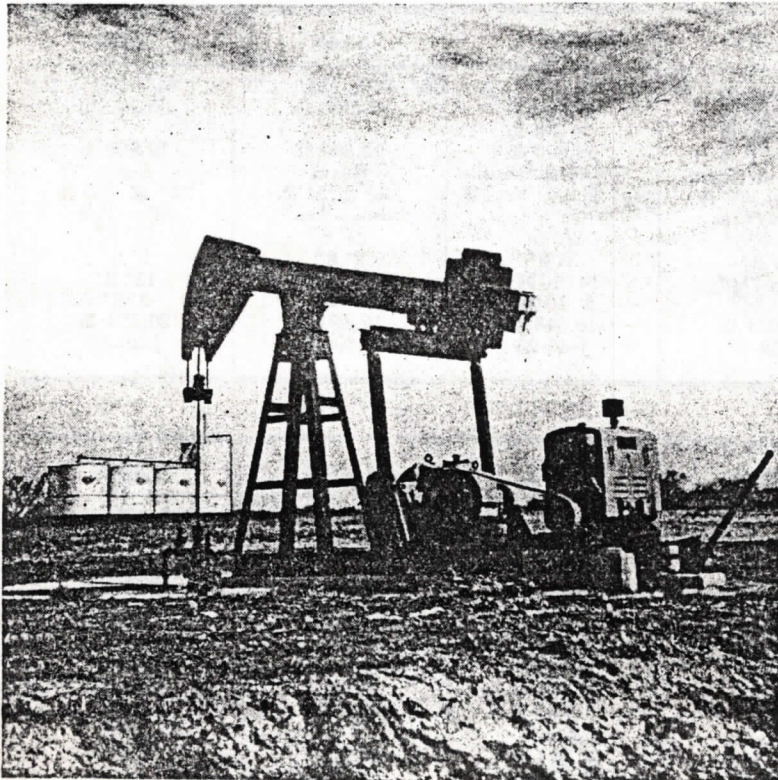
* For specifications of Gear Reducers, see page 1903 † This unit available w/bolted type brake control cross-over shaft.
 ‡ Single crank unit. § For each of two cranks. ¶ For each of two beams. ⓧ Samson Post has vertical front leg.

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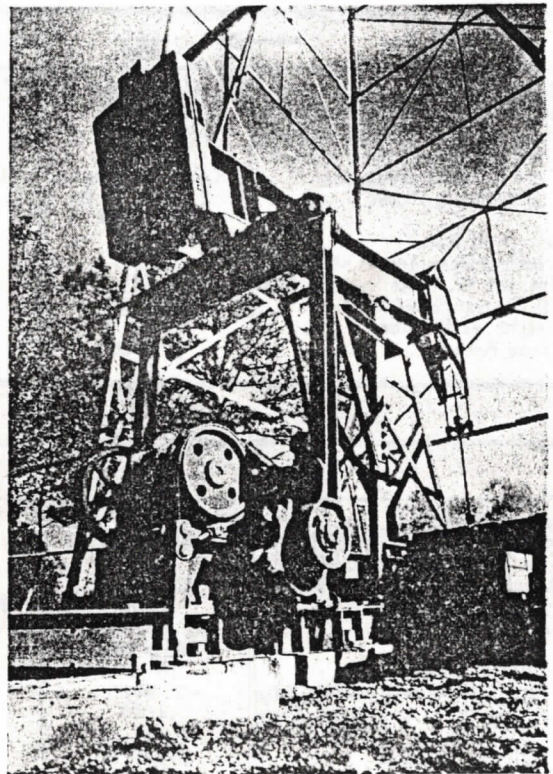
PARKERSBURG PUMPING UNITS



A Type 54-GC Parkersburg Unit in the Orlando, Oklahoma, pool.



A Type 42A-1 Unit in Southwest Texas.



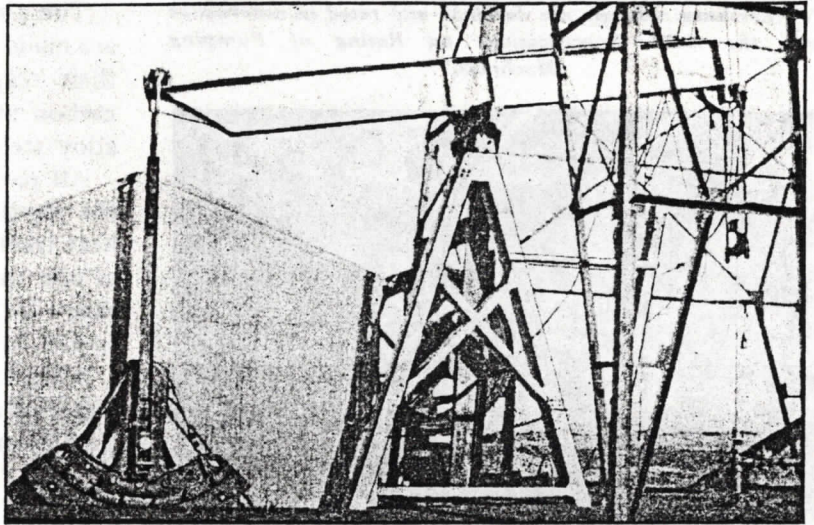
Note the sturdy construction that is typical of Parkersburg Short Stroke Units.

THE PARKERSBURG RIG & REEL CO., Parkersburg, West Virginia

PARKERSBURG PUMPING UNITS

WALKING BEAMS

Parkersburg Walking Beams are fabricated from 24" rolled steel, parallel flange beam sections, carefully selected for minimum mill tolerances as to straightness and parallelism of flanges. Each type of walking beam has been carefully designed to secure the maximum possible strength and the maximum resistance to fatigue.



TYPE IB BEAM

The IB Beam is welded throughout and is of conventional overslung design. The pitman stirrup and polished rod hanger or temper screw bearings are on the same horizontal line and are mounted on top of the beam flange.

The beam is usually used for drilling and short stroke pumping. It can, however, be adapted to long

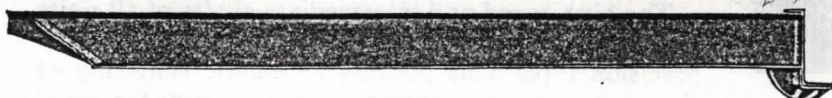
stroke pumping by installing a Parkersburg Polished Rod Compensator.

The IB Beam is drilled for either a regular A.P.I. Saddle or a Parkersburg Sleeve Type Saddle and can be used with regular A.P.I. or flood lubricated saddle bearings.

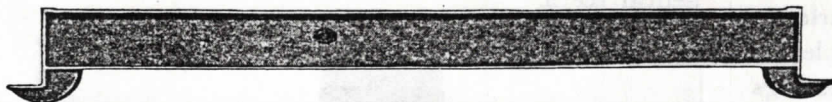
The IBC Walking Beam can be used with a standard A.P.I. saddle and bearings or Parkersburg Sleeve Type Saddle and Flood Lubricated Bearings.



Type "I B" Walking Beam.



Type "I B C" Walking Beam.



Type "I B E" Walking Beam.

stroke pumping by installing a Parkersburg Polished Rod Compensator.

The Type IB Beam is drilled for either a regular A.P.I. Saddle or a Parkersburg Sleeve Type Saddle and can be used with regular A.P.I. or flood lubricated saddle bearings.

TYPE IBC BEAM

The IBC Walking Beam is also of the overslung type but a relatively straight lift motion is secured by the construction at the well end which places the saddle and polished rod hanger bearings on the same horizontal center line. The nose of the beam consists of two cast steel supports welded to a heavy bent

TYPE IBE BEAM

The IBE Walking Beam is of the overslung, straight-lift type, with all bearings on the same horizontal center line. From the illustration it will be noted that both ends of the IBE Beam are dropped to a point below the bottom flange of the beam section thus placing pitman stirrup and polished rod hanger bearings on a line with the saddle bearing. The well end of the beam is equipped with a temper screw slot.

Due to the lowered position of the pitman stirrup bearing, a pitman approximately 30" shorter than the standard length of 13'6" is required, or it is possible to compensate for this difference by elevating the base of the samson post.

SPECIFICATIONS

Working Centers.....	23' 0"	24' 0"	25' 0"	26' 0"	27' 0"	28' 0"
Overall Length.....	24' 0"	25' 0"	26' 0"	27' 0"	28' 0"	29' 0"

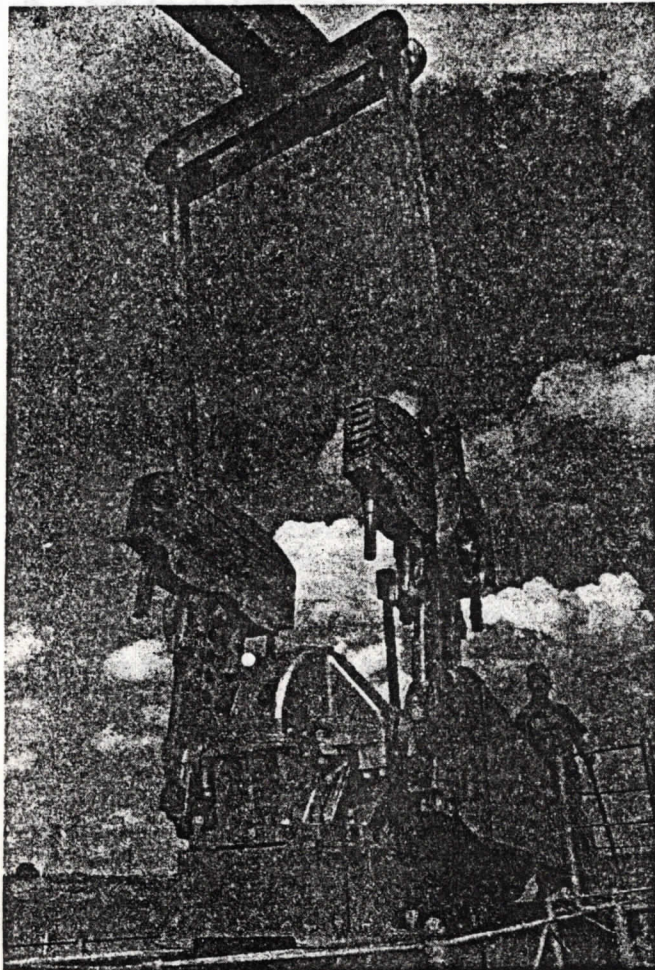
Walking Beam Safe Working Load Capacities

24" @ 100 lb—Carbon.....	15,600	14,700	13,900	13,100	12,300	11,700
Man-Ten....	23,200	21,700	20,200	18,900	17,700	16,600
24" @ 120 lb—Carbon.....	18,900	17,700	16,700	15,800	14,900	14,100
Man-Ten....	28,000	26,200	24,400	22,800	21,400	20,100
24" @ 160 lb—Carbon.....	25,400	23,900	22,600	21,300	20,100	19,000
Man-Ten....	37,900	35,400	33,100	30,900	29,000	27,200

PARKERSBURG PUMPING UNITS

GEAR REDUCERS

"Parkersburg reducers are designed and rated in accordance with the A.P.I. Specifications on Rating of Pumping Machines."



All Parkersburg Herringbone Reducers of more than 10 H.P. have the gears located symmetrically rather than offset or staggered. This desirable arrangement permits the use of two standard bearings of the same size working under the most favorable conditions on each shaft, the loading from the gearing acting equally on the bearings of each shaft.

The finished gear teeth, precisely indexed, have true involute profiles. A standard helix angle of 30 degrees is used, making overlapping teeth possible without the necessity of excessive face width. Pressure angles of 20 degrees (or 40 degrees included angle between teeth) insures strength and freedom from undercutting. By hamonizing these functions with suitable pitches and faces ample overlapping of teeth results in maximum load carrying and smooth rolling engagement in each train.

The pinions for all types, single and double units, are made from chrome nickel alloy steel integral with their respective shafts. The high speed gears are carbon steel forgings and the low speed gears are alloy steel castings.

All pinions and gears are heat treated to improve the physical properties and wearing qualities. After heat treatment the strength, hardness and durability of the material is greatly increased. The hardness range is 265 to 285 Brinell for the pinions and 225 to 235 Brinell for the gears.

All gear trains are lapped for rotation in either direction after cutting to insure smooth accurate tooth profiles and minimum back lash.

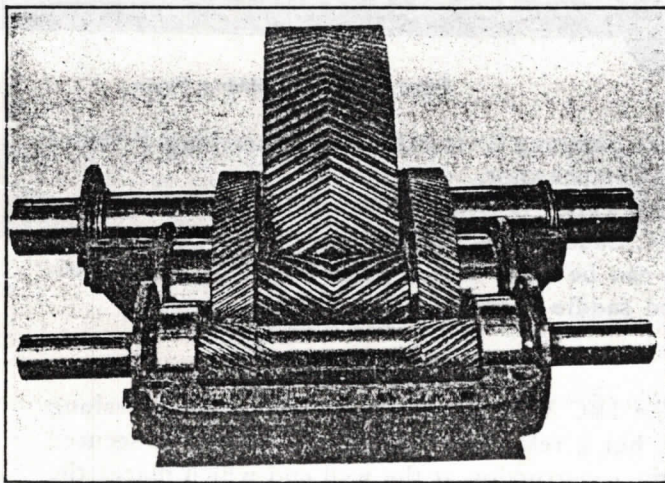
SHAFTS

The high speed shafts and intermediate shafts for all reducers are integral with their respective pinions. The material used is chrome nickel alloy steel heat treated between the limits of 265 and 285 Brinell. Low speed shafts are made from S.A.E. number 1045 steel forgings normalized.

BEARINGS

Roller bearings of liberal size are used on high speed and intermediate speed shafts of most Parkersburg reducers. The low speed shafts of all machines are equipped with bronze bushings. Thrust collars on these bushings restrain the gear from endwise movement.

The high speed and intermediate shafts of all units are equipped with cylindrical roller bearings of the precision type. This permits automatic centering of the gears so no adjustments are necessary for equal distribution of loading over the right and left hand helical teeth.



Gears and Shafting.

THE PARKERSBURG RIG & REEL CO., Parkersburg, West Virginia

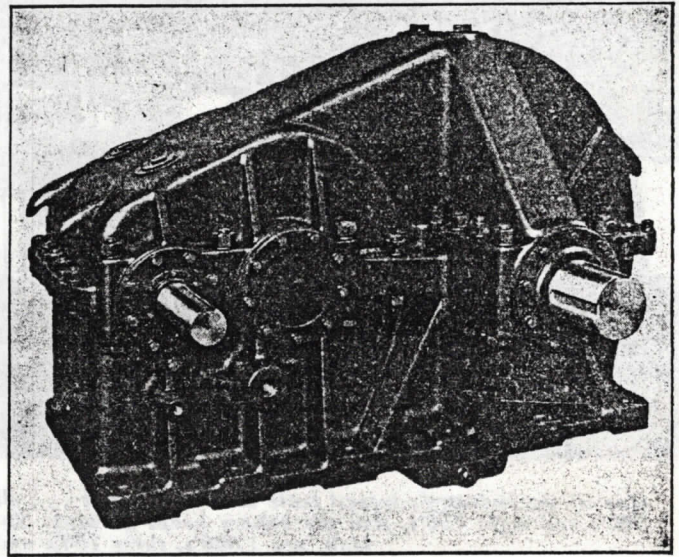
PARKERSBURG PUMPING UNITS

HOUSINGS

The production of housing castings is given particular attention. The material employed for the castings is high test alloy iron. Scientific metallurgical control and laboratory tests of specimens, to insure uniform physical properties, are supplemented by expert foundry practice in the production of castings. The product is far superior in strength, molecular structure, workmanship and finish to common grey iron castings produced by ordinary foundry methods.

All Parkersburg reducers are provided with features and refinements in design aimed to make them particularly adaptable to oil field service. Inspection holes are provided in the upper half of the housing and over each train of gears. To facilitate leveling in the case of concrete installations, machined leveling pads are provided on the upper half of the housing and leveling screws are provided in the base. A settling chamber and drain sump is provided to collect any foreign substance for easy removal when

the oil is changed. The internal surface of the housings is painted with a high grade non-oxidizing oil-resistant paint. Oil drains and fill holes are large and easily accessible.



Gear Box.

GEAR REDUCER SPECIFICATIONS SINGLE REDUCTION

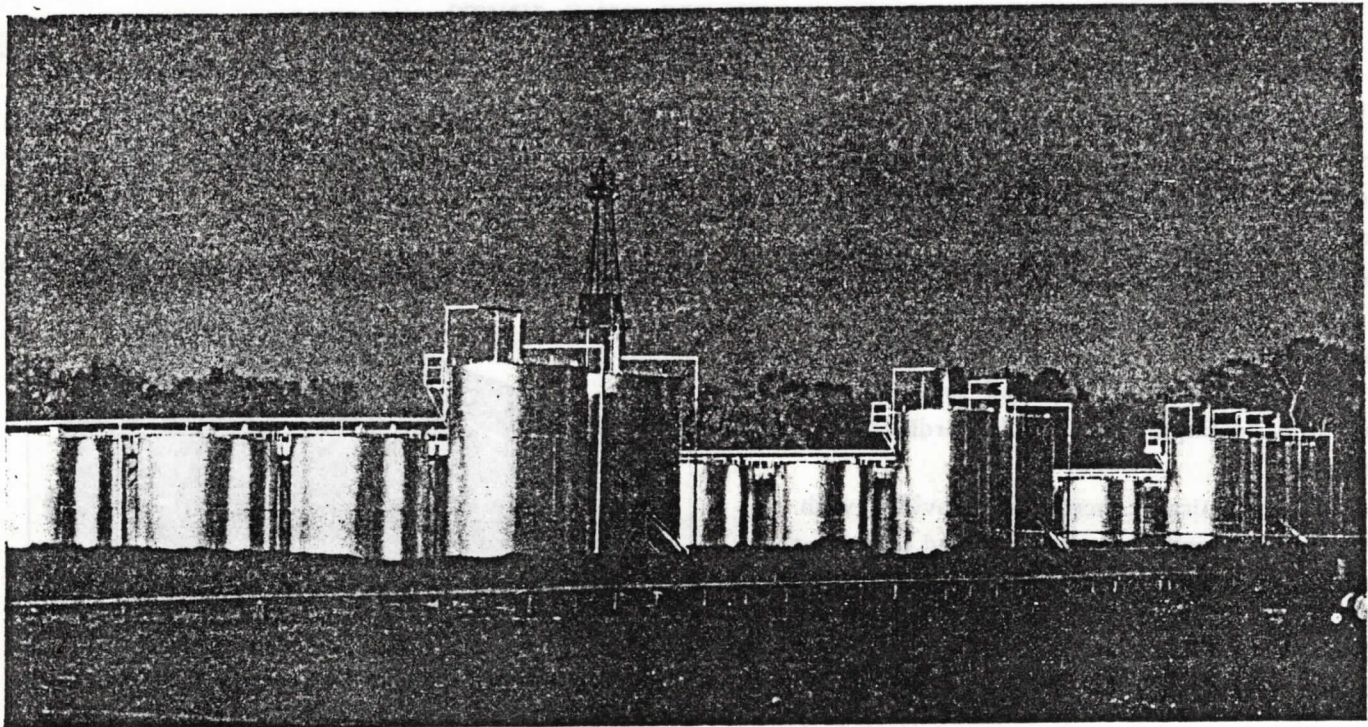
	K-18-10	J-28-9	J-37-10	S-53-10	S-61-9	J-75-10
Total Weight.....	2,965 lbs.	5,200 lbs.	6,100 lbs.	7,500 lbs.	7,700 lbs.	10,500 lbs.
H.P. Capacity at 20 S.P.M. (A.P.I. Rating).....	18.12	27.7	37.3	54.1	61.1	75.1
Peak Torque Capacity at 9 S.P.M.....	94,600	146,000	196,000	285,000	320,000	393,000
Peak Torque Capacity at 20 S.P.M.....	89,600	137,000	184,000	268,000	302,000	371,000
Overall Ratio.....	10.25 to 1	9.2 to 1	10.2 to 1	10.2 to 1	8.9 to 1	9.6 to 1
Low Speed Shaft Diameter.....	4 3/4"	5 1/2"	6"	6 1/2"	6 1/4"	7"
High Speed Shaft Diameter.....	2 1/2"	3 1/4"	3 3/4"	4"	4"	5"
Low Speed Shaft Bearings.....	Bronze Roller	Bronze Roller	Bronze Roller	Bronze Roller	Bronze Roller	Bronze Roller
High Speed Shaft Bearings.....	Bronze Roller	Bronze Roller	Bronze Roller	Bronze Roller	Bronze Roller	Bronze Roller
Maximum Diameter Driven Sheave.....	32 1/4"	32"	32 1/4"	39 1/4"	39 1/4"	43"
Maximum Number and Size of V-Belts.....	6-C	7-D	8-D	7-D	7-D	9-D

DOUBLE REDUCTION

	K-5-30	K-5-53	K-11 1/2-30	K-15-27	K-20-26	K-25-20
Total Weight.....	1,275 lbs.	1,290 lbs.	.....	2,413 lbs.	3,245 lbs.	.....
H.P. Capacity at 20 S.P.M. (A.P.I. Rating).....	5.23	4.84	11.48	14.97	19.93	24.98
Peak Torque Capacity at 9 S.P.M.....	26,700	24,850	59,100	77,000	105,770	129,500
Peak Torque Capacity at 20 S.P.M.....	25,900	23,900	56,800	74,000	98,590	123,500
Overall Ratio.....	30.09 to 1	52.95 to 1	30.17	26.74 to 1	26.748 to 1	19.98
Low Speed Shaft Diameter.....	3 3/4"	3 3/4"	4 1/4"	4 1/4"	5"	5 1/2"
High Speed Shaft Diameter.....	1 1/2"	1 1/2"	1 3/4"	2 1/2"	2 1/2"	2 3/4"
Low Speed Shaft Bearings.....	Bronze Roller	Bronze Roller	Bronze Roller	Bronze Roller	Bronze Roller	Bronze Roller
High Speed Shaft Bearings.....	Bronze Roller	Bronze Roller	Bronze Roller	Bronze Roller	Bronze Roller	Bronze Roller
Maximum Diameter Driven Sheave.....	22"	22"	27 1/4"	31"	32"	39"
Maximum Number and Size of V-Belts.....	3-C	3-C	4-C	5-C	6-C	4-D

	J-27-27	J-30-33	J-40-20 S-40-20	J-49-20	J-53-30
Total Weight.....	4,100 lbs.	5,900 lbs.	6,500 lbs.	5,950 lbs.	9,230 lbs.
H.P. Capacity at 20 S.P.M. (A.P.I. Rating).....	27.0	47.6	40.1	50.1	83.9
Peak Torque Capacity at 9 S.P.M.....	153,000	252,000	209,000	264,000	446,000
Peak Torque Capacity at 20 S.P.M.....	134,000	236,000	198,000	248,000	415,000
Overall Ratio.....	26.8 to 1	33.5 to 1	19.6 to 1	19.9 to 1	29.8 to 1
Low Speed Shaft Diameter.....	5"	6"	6"	6"	6 1/2"
High Speed Shaft Diameter.....	3"	3"	3"	3"	3 1/2"
Low Speed Shaft Bearings.....	Roller	Bronze Roller	Bronze Roller	Bronze Roller	Bronze Roller
High Speed Shaft Bearings.....	Roller	Roller	Roller	Roller	Roller
Maximum Diameter Driven Sheave.....	38"	46"	40"	46"	60"
Maximum Number and Size of V-Belts.....	6-C	5-D	6-D	5-D	5-D

PARKERSBURG BOLTED STEEL TANKS



One of the Industry's largest lease storage batteries . . . all Parkersburg Bolted Steel Tanks . . . including eighteen 500's and eight 750's. And the battery keeps growing. Since this photograph was made one 4-ring 2,000-barrel tank, two 1,000's, three 750's and four 500's have been added.

Parkersburg Bolted Tanks are designed by engineers experienced in oil field requirements. Each size is designed in accordance with predetermined formulas that allow ample factors of safety for all service requirements. Every possible stress is calculated and tanks are tested to determine the critical point of failure under both pressure and vacuum.

Designed and fabricated in strict accordance with A.P.I. Standards, all parts of Parkersburg Bolted Tanks are interchangeable. This is a particularly desirable feature and assures standardization of replacement parts.

Bolted Steel Tanks made to A.P.I. Standards are available in sizes from 100 barrels to 10,000 barrels capacity.

Bolted Wrought Iron Tanks are made in the more popular sizes ranging from 250 barrels to 3-ring 1500 barrels.

Byers Genuine Wrought Iron is used exclusively in Parkersburg Wrought Iron Tanks. Its high iron silicate fibre content (250,000 fibres per square inch) gives it excellent corrosion-resisting qualities. Galvanizing adheres more tightly to wrought iron and because of this characteristic it is especially recommended for severe corrosion conditions.

Fabrication

A thoroughly modern plant plus the latest and most efficient machinery contribute to the high quality of Parkersburg Bolted Tanks. Every part of the tank is cut, formed and punched by machinery that eliminates the element of human error. Each part fits accurately and tightly. The result is a tank that has become renowned for the speed and ease of its erection.

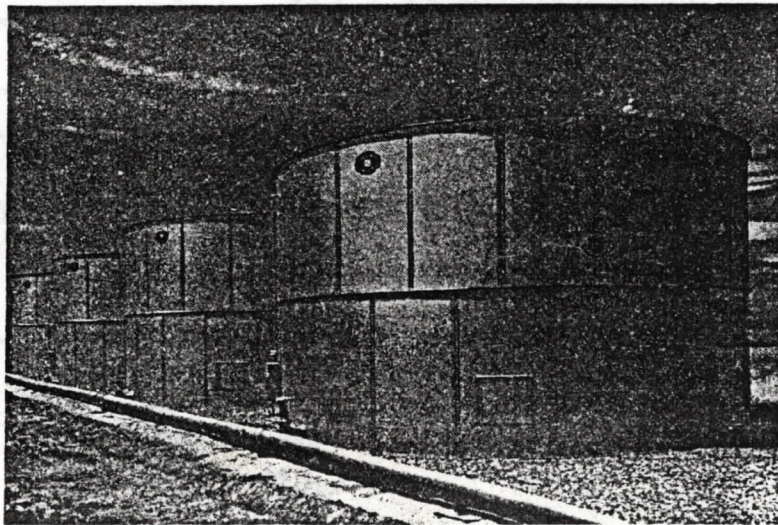
Side sheets are accurately flanged. Vertical seams are wide-lapped and stiffened by channels which serve as seam-stiffeners and prevent bolt heads from turning. On tanks of 2,000 barrels capacity and larger, vertical seams have double or triple rows of bolts.

The steel sheets used for sides, decks and bottoms are of uniform gauge designed in accordance with rated capacities and conditions of field service.

Gaskets

The gasket material used for Bolted Tanks is generally referred to as "packing." It is manufactured in a variety of grades. Some tank manufacturers supply one grade for gasoline or high gravity crude oil storage, and another grade for the storage of low gravity crude oil. The best grade obtainable is supplied for all Parkersburg tanks.

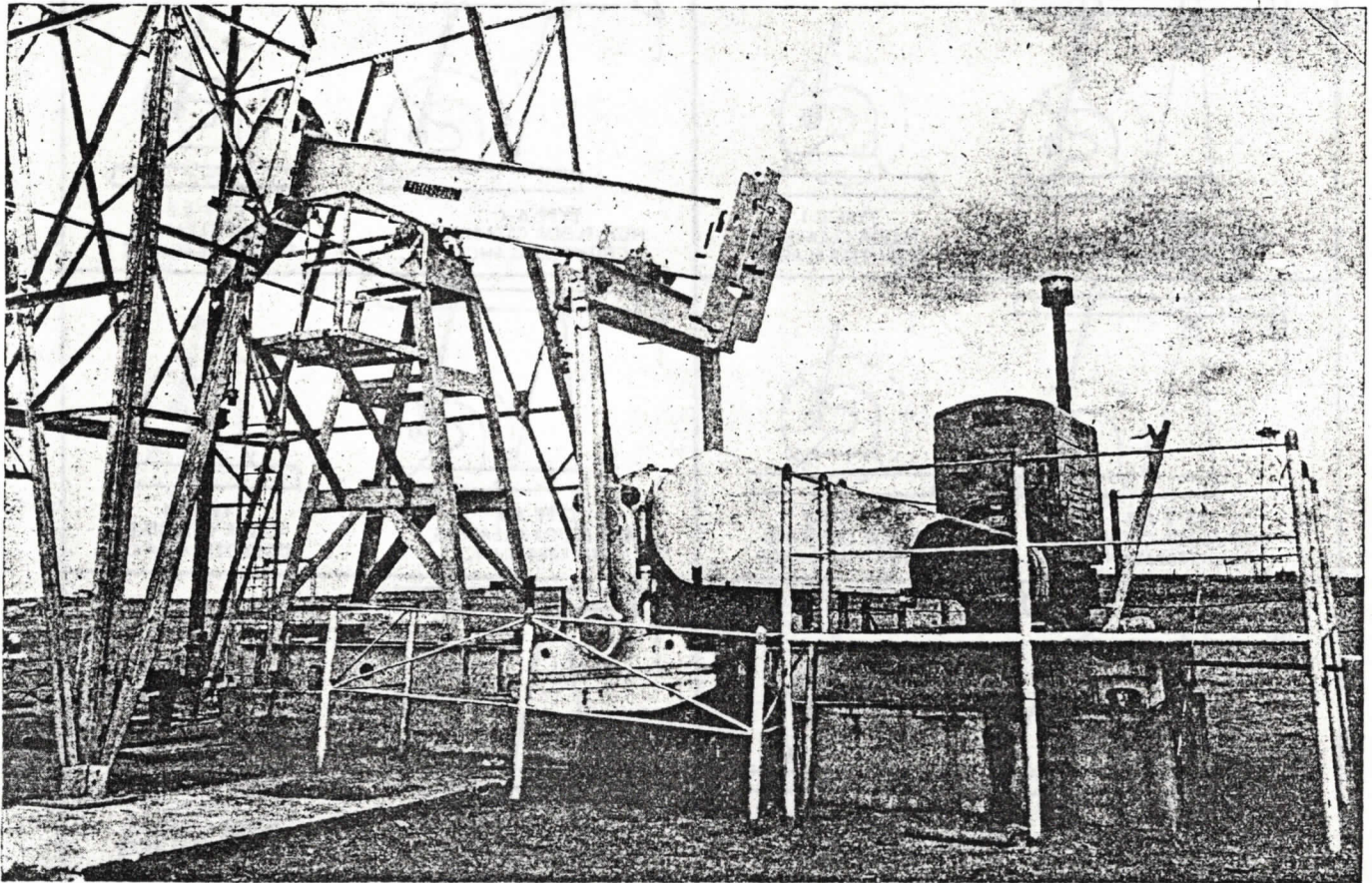
Parkersburg Tank Packing is manufac-



Parkersburg Bolted Tanks on a California Lease

THE PARKERSBURG RIG & REEL CO., Parkersburg, West Virginia

PARKERSBURG PUMPERS



A Type 54" Stroke Parkersburg Pumper in the Orlando, Oklahoma, pool.

PARKERSBURG PUMPER DESIGNATIONS

In order to simplify the designations applied to various types of Parkersburg pumps, and so that each designation may convey definite information concerning the pumper to which it is applied, we have adopted the following method of designation:

For an example we will take the

1 2 3 4
48 - G57D - 10 - A5 pumper.

In this and all other designations the first two figures indicate the maximum length of stroke (48" in this example).

In the second series the first letter will always indicate the type of drive—whether it is gear or chain. The letter "G" in the above example indicates that this pumper has a gear-driven speed reducer. If it had a chain-driven reducer the "G" would be replaced with the letter "C." The figures following the letter designating the type of drive will always represent the A.P.I. peak torque rating in thousands of inch pounds. In the pumper in the above example the figures 57 show that it has a peak torque rating of 57,000 inch lbs. The zeros are dropped in order to simplify the designation. In cases where there are three figures used the meaning will be the same.

The figures indicating the peak torque rating are always followed by either the letter "D," as in the example above, or "S." This letter indicates whether it is a double reduction (D) or single reduction (S) reducer.

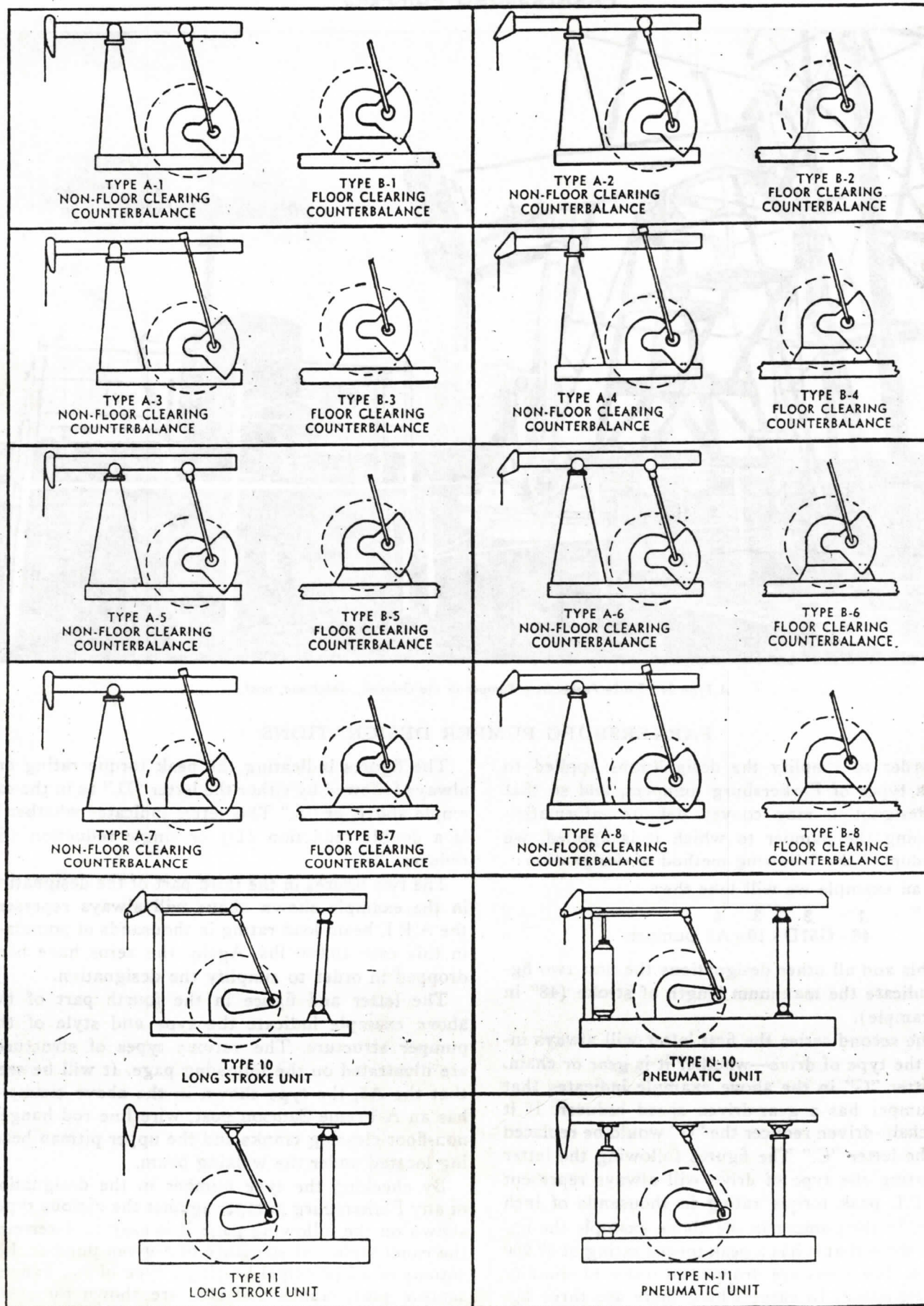
The two figures in the third part of the designation in the example shown above will always represent the A.P.I. beam load rating in thousands of pounds—in this case 10,000 lbs. Again, the zeros have been dropped in order to simplify the designation.

The letter and figure in the fourth part of the above example indicate the type and style of the pumper structure. The various types of structures are illustrated on the following page. It will be seen that the A5, the type shown in the above example, has an A-Frame Samson post, wire line rod hanger, non-floor-clearing cranks and the upper pitman bearing located under the walking beam.

By checking the type number in the designation of any Parkersburg pumper against the various types shown on the following page it is easy to determine the exact style and structure of a given pumper. Locations of all principal bearings, type of rod hanger, samson post, cranks and etc., are shown for every type of pumper in the entire Parkersburg line.

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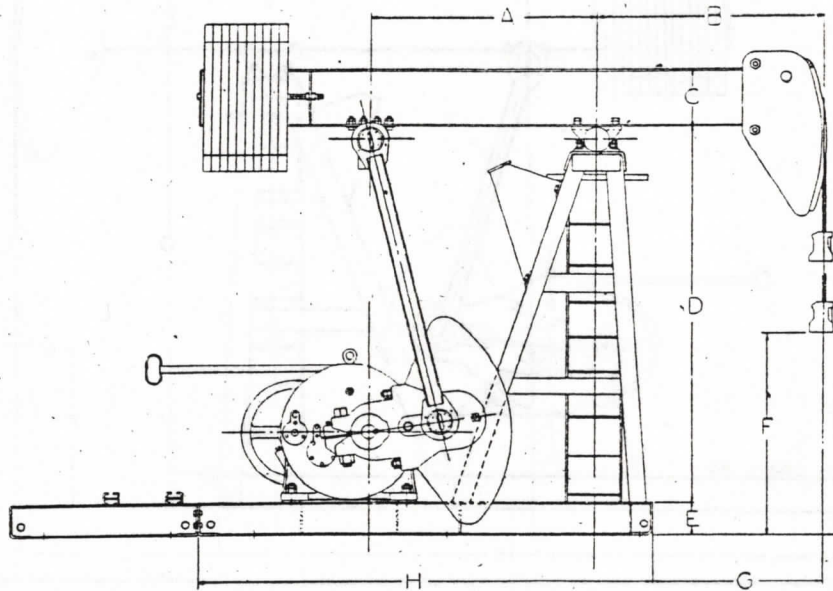
PARKERSBURG PUMPER DESIGNATIONS



THE PARKERSBURG RIG & REEL CO., Parkersburg, West Virginia

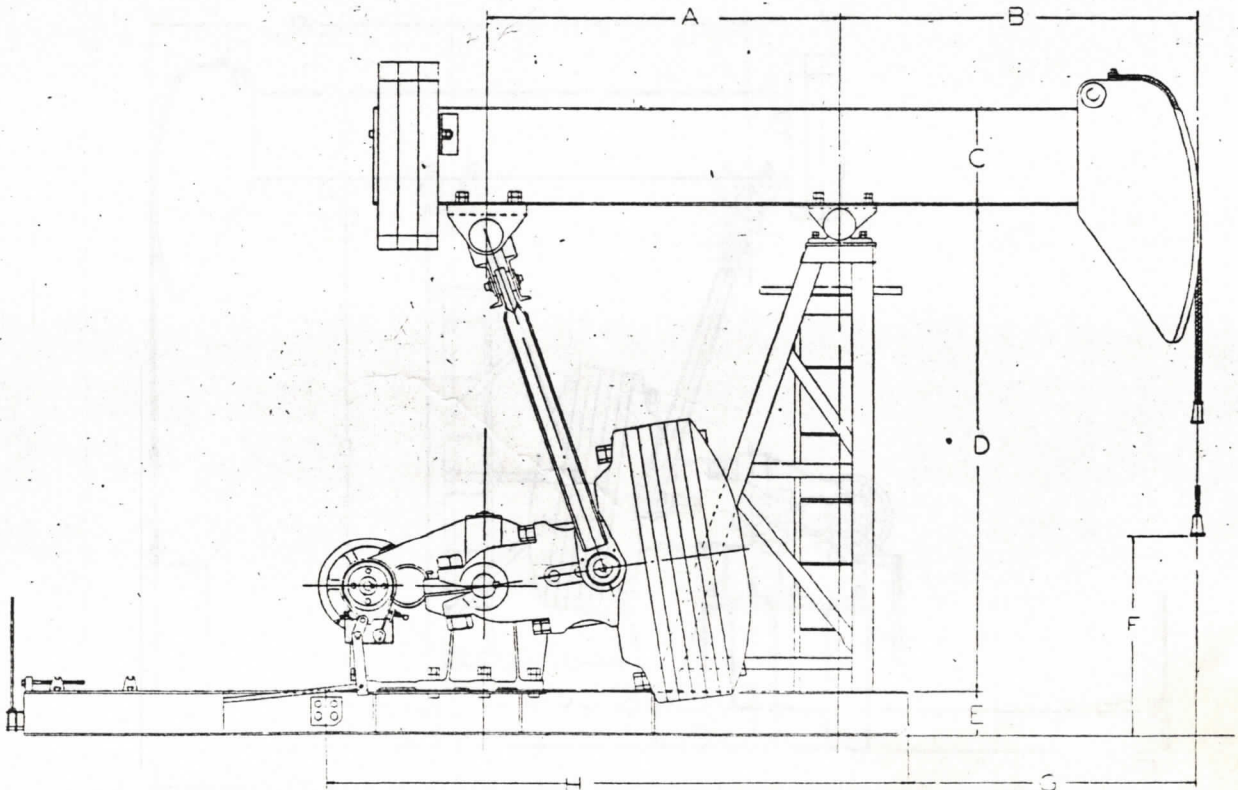
PARKERSBURG PUMPERS

34-G40D-10-A5, 42-G57D-10-A5 SERIES



SERIES	"A"	"B"	"C"	"D"	"E"	"F"	"G"	Short Base "H"	Long Base "H"
34-G40D-10-A5.....	4' 6"	4' 6"	14"	7' 7"	8"	4' 2"	3' 4 ³ / ₈ "	8' 11 ¹ / ₂"	.....
42-G57D-10-A5.....	5' 0"	5' 0"	14"	8' 5 ¹ / ₄ "	8"	4' 4"	3' 10 ³ / ₈ "	8' 8 ¹ / ₂"	.....
48-G80D-13-A5.....	6' 0"	6' 0"	16"	10' 3 ³ / ₄ "	10"	3' 6"	3' 9"	11' 7 ³ / ₄"	.....
48-G80S-13-A5.....	6' 0"	6' 0"	16"	10' 3 ³ / ₄ "	10"	3' 6"	3' 9"	11' 7 ³ / ₄"	.....
48-G96S-13-A5.....	6' 0"	6' 0"	18"	8' 7 ¹ / ₂ "	10"	3' 6"	5' 2"	10' 1"	.....
54-G114D-16-A5.....	8' 0"	8' 0"	24"	11' 2 ¹ / ₂ "	12"	3' 6"	5' 3 ³ / ₈ "	14' 0"	.....
54-G114S-10-A5.....	8' 0"	8' 0"	24"	11' 2 ¹ / ₂ "	12"	3' 6"	5' 3 ³ / ₈ "	14' 0"	.....
54-G124D-15-A5.....	7' 0"	7' 0"	21"	9' 8 ¹ / ₂ "	12"	3' 6"	6' 1 ⁵ / ₈"	.....	16' 4 ¹ / ₂ "

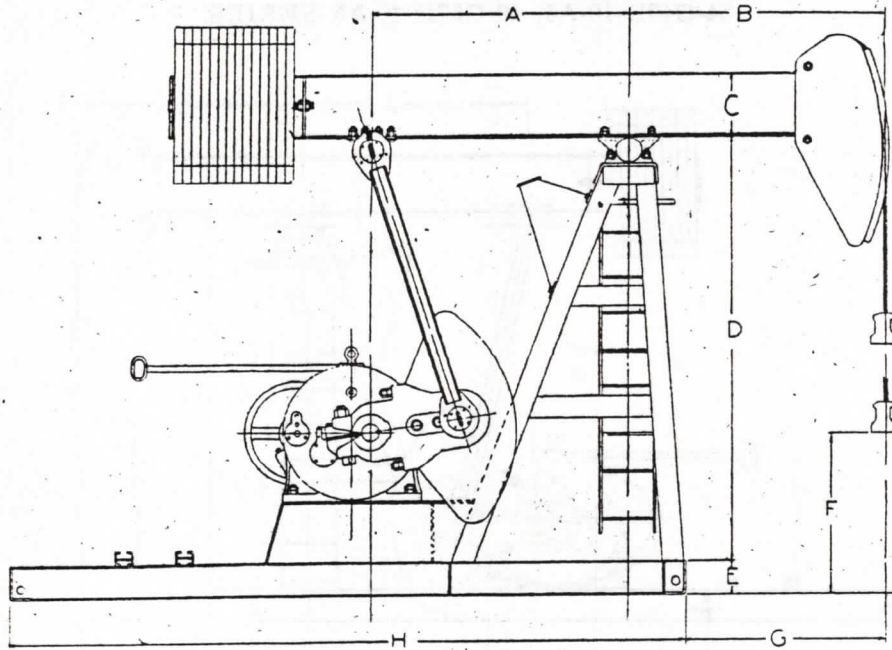
48-G80D-13-A5, 48-G80S-13-A5, 54-G124D-15-A5 (L. B.) 54-G114D-16-A5, 54-G114S-16-A5 SERIES



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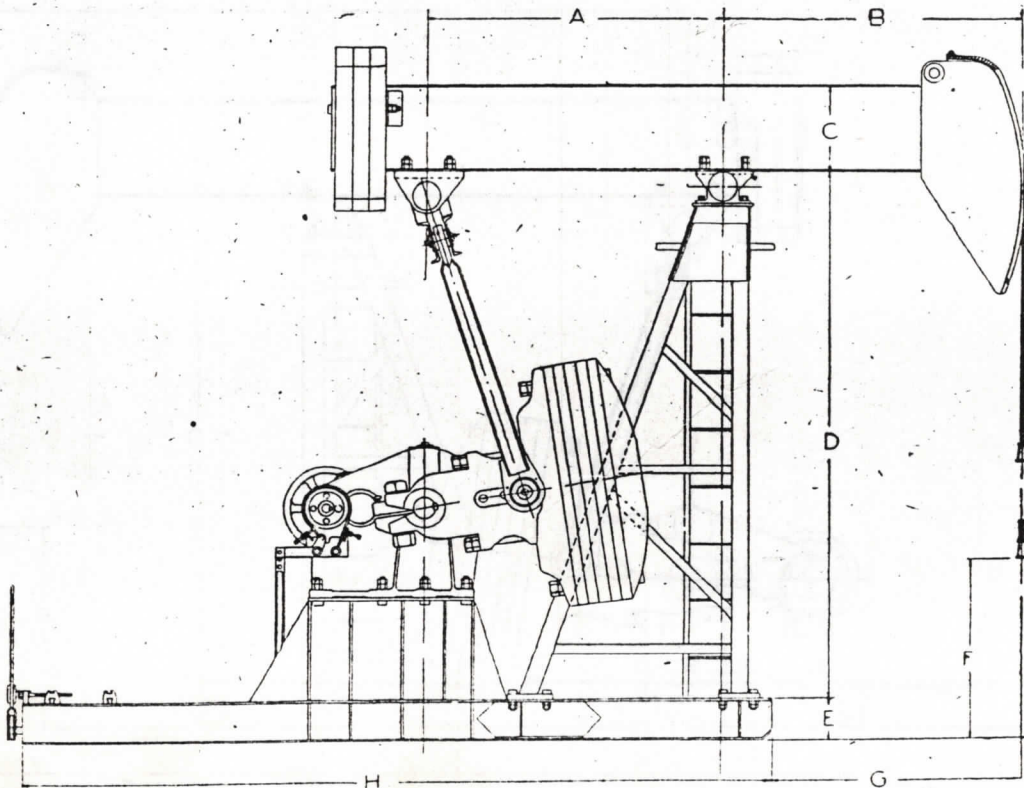
PARKERSBURG PUMPERS

28-G25D-7-B5, 34-G40D-10-B5, 42-G57D-13-B5



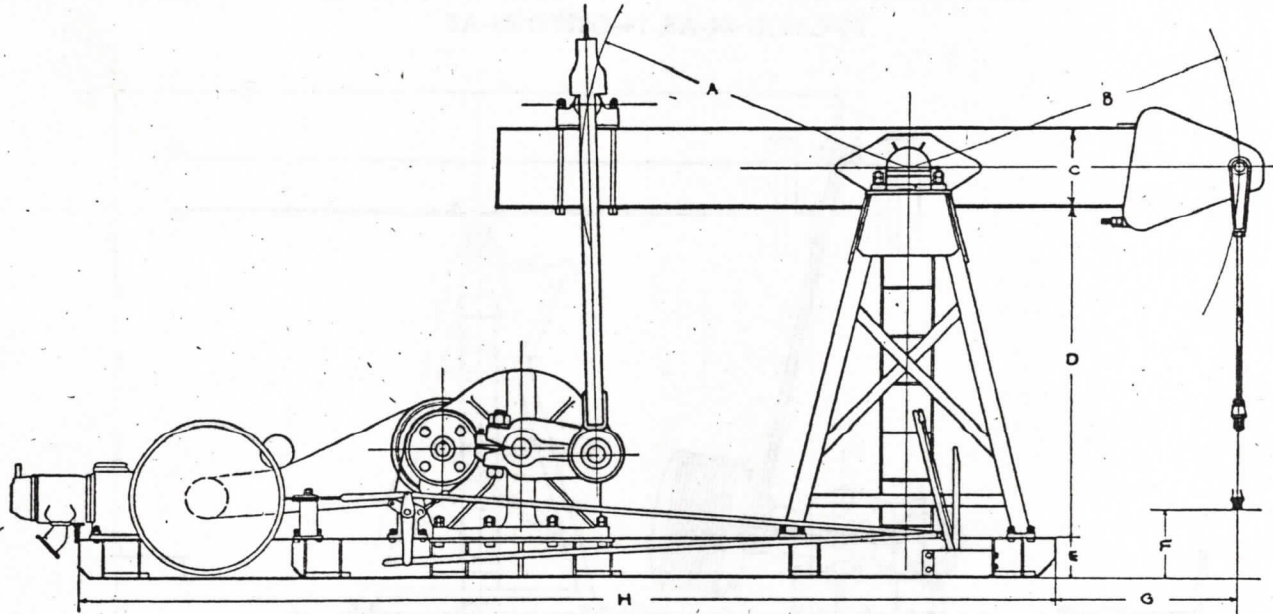
SERIES	"A"	"B"	"C"	"D"	"E"	"F"	"G"	Short Base "H"	Long Base "H"
28-G25D-7-B5 (L. B.)	3' 6"	3' 6"	12"	5' 11 ³ / ₄ "	8"	3' 4"	2' 7"		10' 4"
34-G40D-10-B5 (L. B.)	4' 6"	4' 6"	14"	7' 7"	8"	4' 2"	3' 4 ³ / ₈ "		12' 9"
42-G57D-10-B5 (L. B.)	5' 0"	5' 0"	14"	8' 5 ¹ / ₄ "	8"	4' 4"	3' 10 ³ / ₈ "		13' 2"
48-G80D-13-B5 (L. B.)	6' 0"	6' 0"	16"	10' 3 ⁵ / ₈ "	10"	3' 6"	3' 8 ⁷ / ₈ "		18' 3 ³ / ₈ "
54-G145D-15-B5 (L. B.)	7' 0"	7' 0"	21"	11' 0 ¹ / ₄ "	12"	3' 6"	5' 11 ³ / ₈ "		16' 3 ³ / ₈ "
54-G99D-15-B5 (L. B.)	7' 0"	7' 0"	21"	11' 0 ¹ / ₄ "	12"	3' 6"	5' 11 ³ / ₈ "		16' 3 ³ / ₈ "
54-G114D-16-B5	8' 0"	8' 0"	24"	11' 2 ¹ / ₄ "	12"	3' 6"	5' 3 ⁵ / ₈ "		21' 2"
54-G124D-15-B5 (L. B.)	7' 0"	7' 0"	21"	11' 0 ¹ / ₄ "	12"	3' 6"	5' 11 ³ / ₈ "		16' 3 ³ / ₈ "
64-G220D-19-B5 (L. B.)	10' 0"	10' 0"	24"	13' 0"	12"	6' 7"	6' 3 ³ / ₈ "		24' 7"
64-G220D-25-B5 (L. B.)	10' 0"	10' 0"	24"	13' 0"	12"	6' 7"	6' 3 ³ / ₈ "		24' 7"
74-G277D-24-B5 (L. B.)	12' 6"	12' 6"	24 ¹ / ₄ "	14' 7 ³ / ₈ "	16"	6' 6"	7' 9 ³ / ₈ "		30' 0"

48-G80D-13-B5, 54-G145D-15-B5, 54-G99D-15-B5, 54-G114D-16-B5, 54-G124D-15-B5

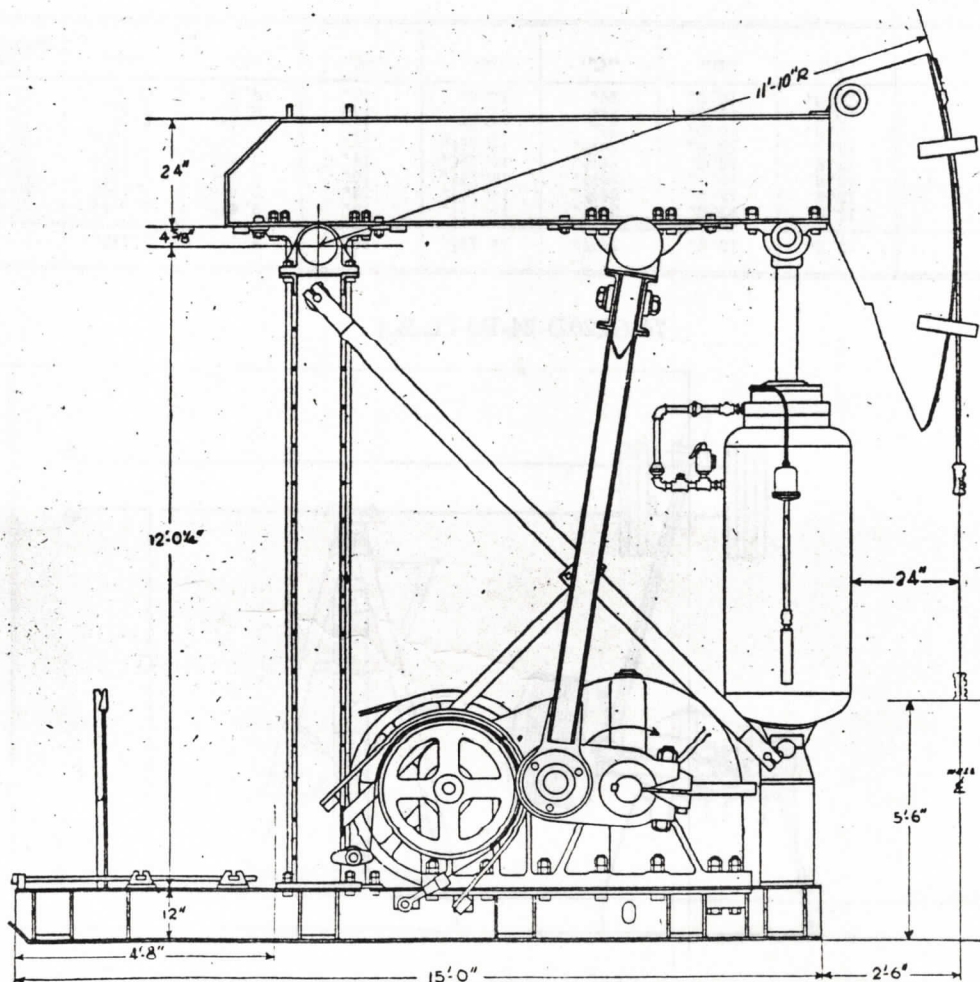


THE PARKERSBURG RIG & REEL CO., Parkersburg, West Virginia

PARKERSBURG PUMPERS
 36-G96S-13-A4 (Long Base) 36 BIU



SERIES	"A"	"B"	"C"	"D"	"E"	"F"	"G"	Short Base "H"	Long Base "H"
36-G96S-13-A4 (L. B.)	6' 0"	6' 0"	16"	7' 0"	8"	6' 10"	3' 5 1/2"	11' 9 1/2"	15' 10"

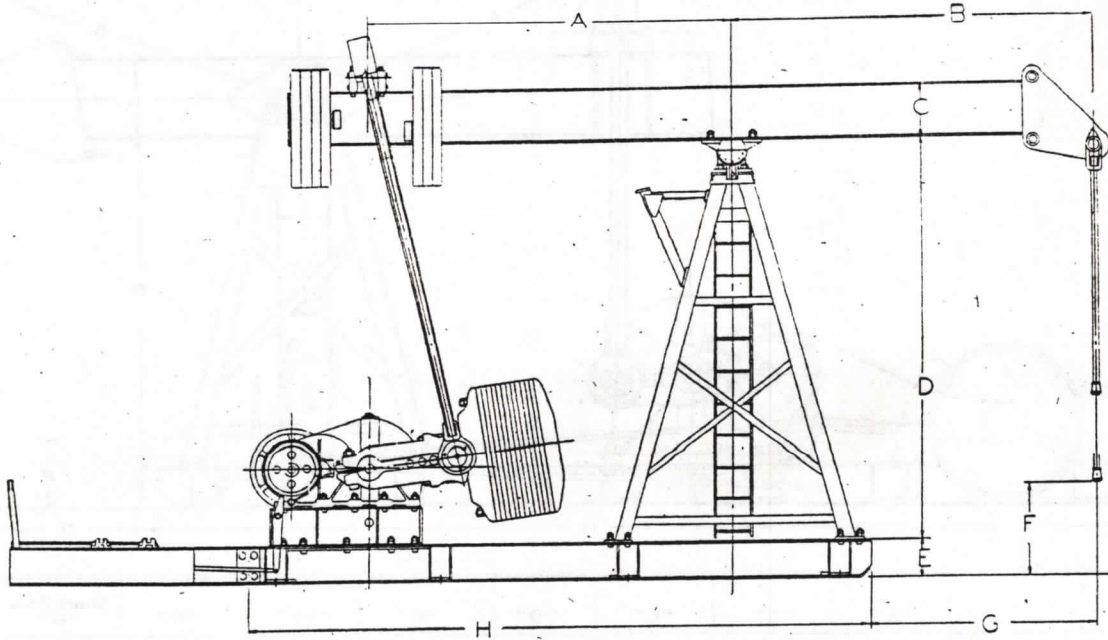


66-II Hydronumatic Pumper

THE PARKERSBURG RIG & REEL CO., Parkersburg, West Virginia

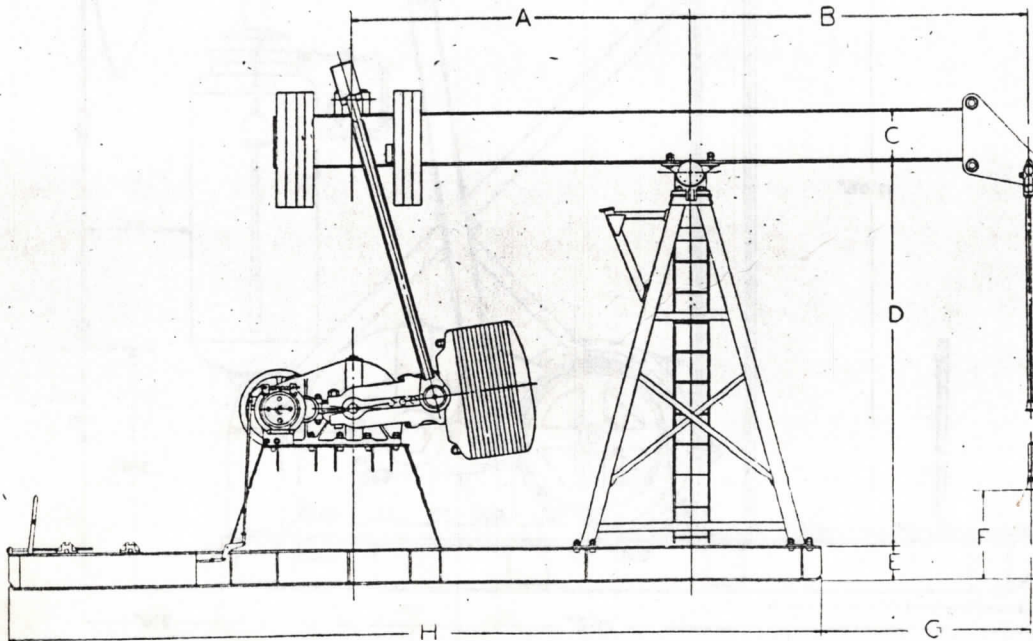
PARKERSBURG PUMPERS

54-G149S-19-A8, 64-G203S-19-A8, 64-G220D-19-A8, 74-G295S-24-A8, 74-G340S-24-A8, 74-G259D-24-A8,
74-G220D-24-A8, 74-G277D-24-A8



SERIES	"A"	"B"	"C"	"D"	"E"	"F"	"G"	Short Base "H"	Long Base "H"
54-G149S-19-A8.....	10' 0"	10' 0"	24"	10' 6"	12"	4' 6"	6' 2"	18' 6 1/2"	.....
64-G203S-19-A8.....	10' 0"	10' 0"	24"	13' 0"	12"	6' 7"	6' 2"	17' 8"	.....
64-G220D-19-A8.....	10' 0"	10' 0"	24"	13' 0"	12"	6' 7"	6' 2"	18' 6"	.....
74-G295S-24-A8.....	12' 6"	12' 6"	24 1/2"	14' 7 5/8"	16"	3' 4 1/2"	7' 7 1/2"	23' 7 1/2"	.....
74-G340S-24-A8.....	12' 6"	12' 6"	24 1/2"	14' 7 5/8"	16"	3' 4 1/2"	7' 7 1/2"	23' 7 1/2"	.....
74-G259D-24-A8.....	12' 6"	12' 6"	24 1/2"	14' 7 5/8"	16"	3' 4 1/2"	7' 7 1/2"	21' 6"	.....
74-G220D-24-A8.....	12' 6"	12' 6"	24 1/2"	14' 7 5/8"	16"	3' 4 1/2"	7' 7 1/2"	23' 7 1/2"	.....
74-G277D-24-A8.....	12' 6"	12' 6"	24 1/2"	14' 7 5/8"	16"	3' 4 1/2"	7' 7 1/2"	21' 6"	.....
74-G220D-24-B8 (L.B.).....	12' 6"	12' 6"	24 1/2"	14' 7 5/8"	16"	3' 4 1/2"	7' 7 1/2"	.....	30' 0"

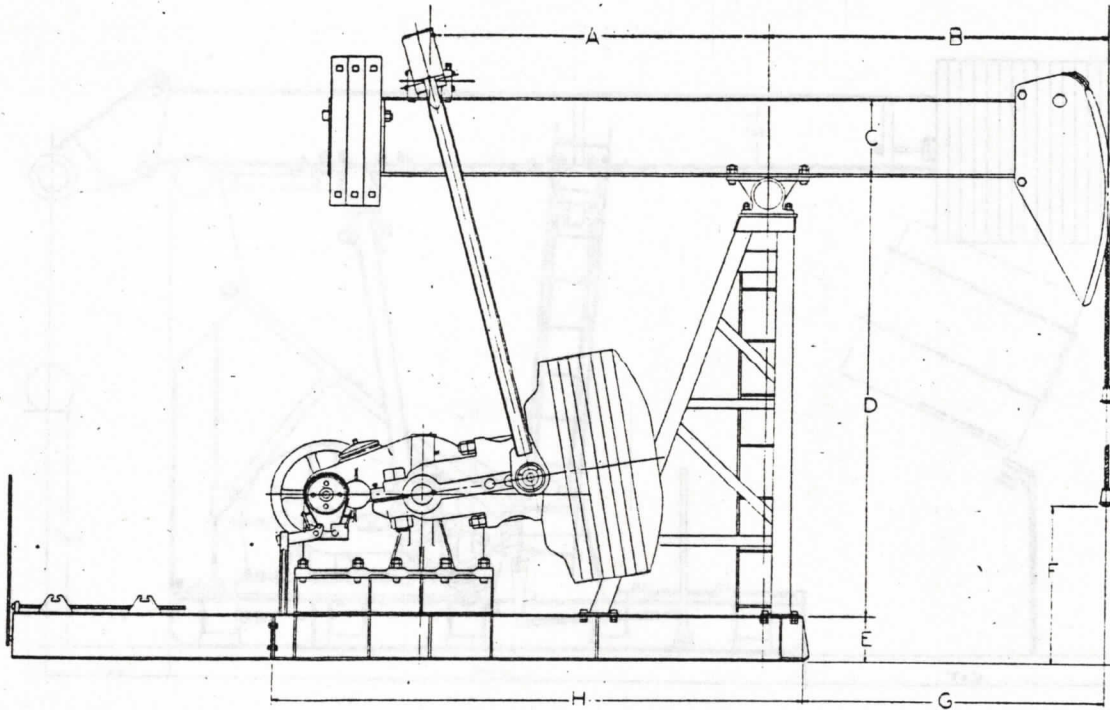
74-G220D-24-B8 (L.B.)



THE PARKERSBURG RIG & REEL CO., Parkersburg, West Virginia

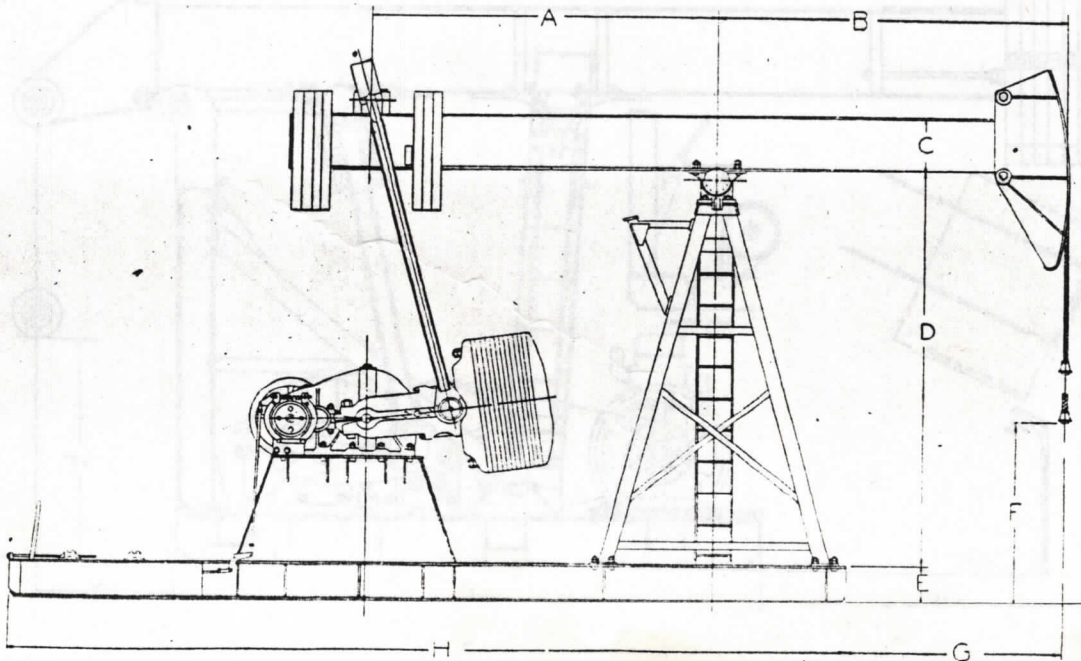
PARKERSBURG PUMPERS

54-G99D-15-A7



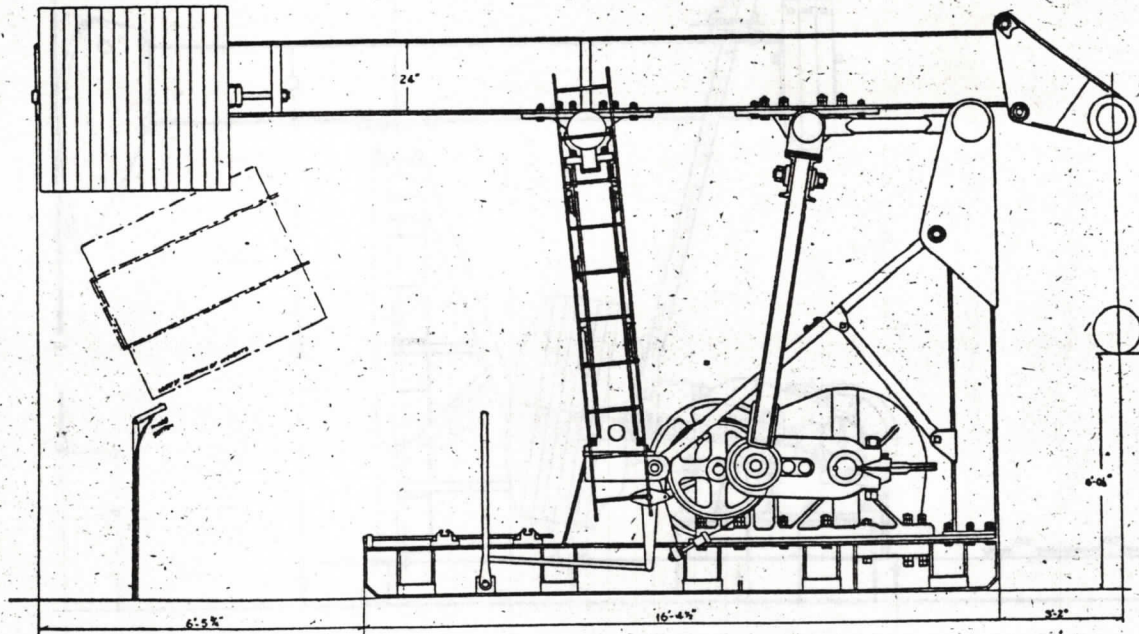
SERIES	"A"	"B"	"C"	"D"	"E"	"F"	"G"	Short Base "H"	Long Base "H"
54-G99D-15-A7.....	7' 0"	7' 0"	21"	9' 8 1/4"	12"	3' 6"	6' 1 1/2"	10' 10 3/8"	.....
54-G145D-19-B7 (L. B.).....	10' 0"	10' 0"	24"	13' 0"	12"	7' 0"	6' 3 1/4"	.....	23' 3 1/4"
64-G220D-19-B7 (L. B.).....	10' 0"	10' 0"	24"	13' 0"	12"	6' 7"	6' 3 1/4"	.....	24' 7"
64-G220D-25-B7 (L. B.).....	10' 0"	10' 0"	24"	13' 0"	12"	6' 7"	6' 3 1/4"	.....	24' 7"
64-G203S-19-A7 (L. B.).....	10' 0"	10' 0"	24"	13' 0"	12"	6' 7"	6' 3 1/4"	17' 8"	.....
74-G277D-24-B7 (L. B.).....	12' 6"	12' 6"	24 1/4"	14' 7 3/4"	16"	6' 6"	7' 9 1/2"	.....	30' 0"

54-G145D-19-B7 64-G220D-19-B7 64-G220D-25-B7 74-G277D-24-B7

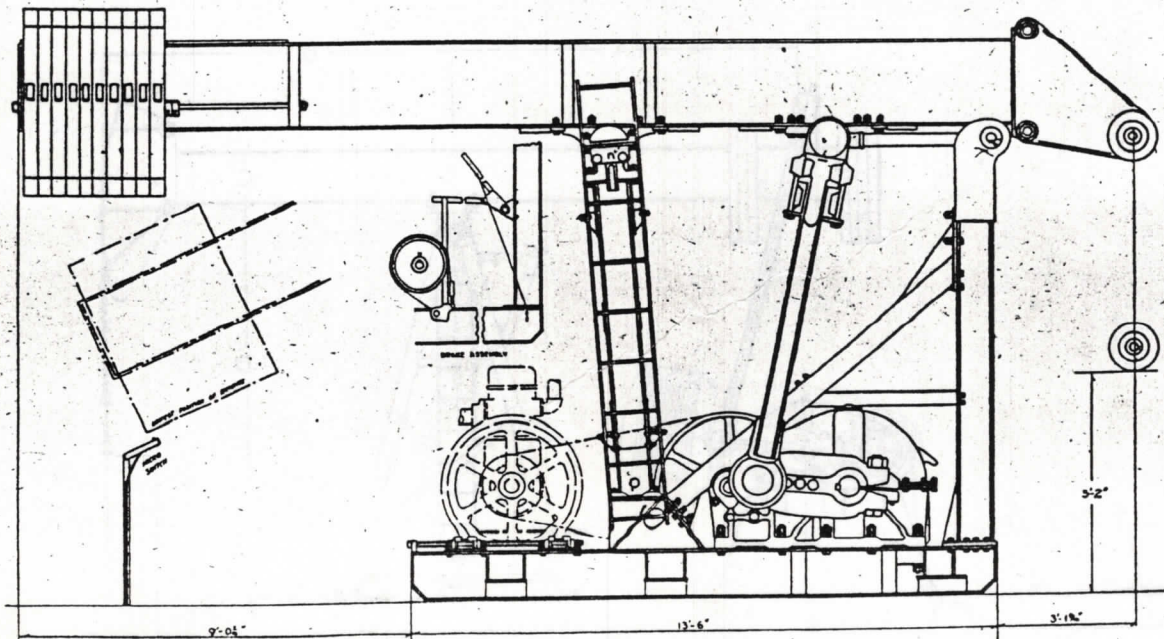


PARKERSBURG PUMPER

132-G456D-30-10 LONG STROKE PUMPER

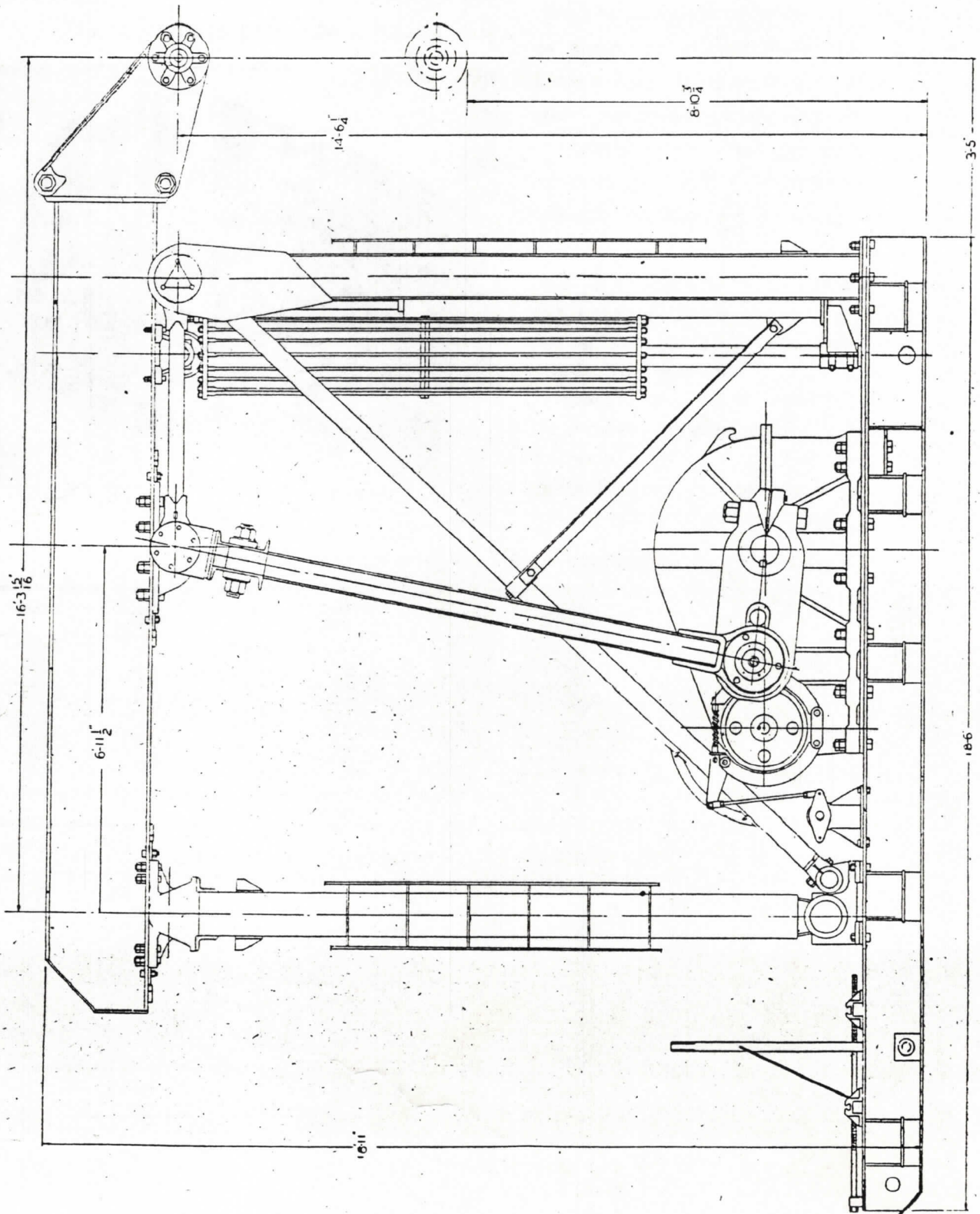


120-G259D-30-10 LONG STROKE PUMPER



THE PARKERSBURG RIG & REEL CO., Parkersburg, West Virginia

PARKERSBURG PUMPERS

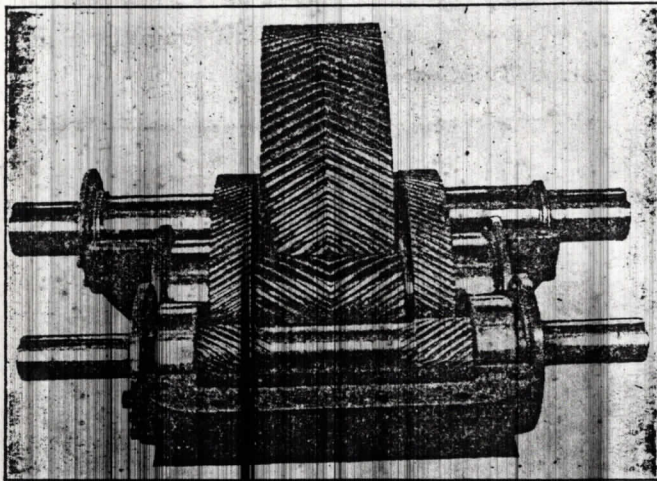


120-G492D-30-N10 14" PNEUMATIC COUNTERBALANCE

18-6

THE PARKERSBURG RIG & REEL CO., Parkersburg, West Virginia

PARKERSBURG GEAR REDUCERS



Gears and Shafting.

All Parkersburg Herringbone Reducers having a peak torque of more than 57,000 inch pounds have the gears located symmetrically rather than offset or staggered. This desirable arrangement permits the use of two standard bearings of the same size working under the most favorable conditions on each shaft, the loading from the gearing acting equally on the bearings of each shaft.

The finished gear teeth, precisely indexed, have true involute profiles. A standard helix angle of 30 degrees is used, making overlapping teeth possible without the necessity of excessive face width. Pressure angles of 20 degrees insures strength and freedom from undercutting. Harmonizing these functions with suitable pitches and faces results in maximum load carrying capacity and smooth rolling engagement in each train.

The pinions for all types, single and double units, are made from chrome nickel alloy steel integral with their respective shafts. The high speed gears are carbon steel forgings and the low speed gears are alloy steel castings.

All pinions and gears are heat treated to improve the physical properties and wearing qualities. After heat treatment the strength, hardness and durability of the material are greatly increased.

All gear trains are lightly lapped for rotation in either direction after cutting to insure smooth accurate tooth profiles and minimum back lash.

SHAFTS

The high speed shafts and intermediate shafts for all reducers are integral with their respective pinions. The material used is chrome nickel alloy steel, heat treated. Low speed shafts are made from S.A.E. number 1045 normalized steel.

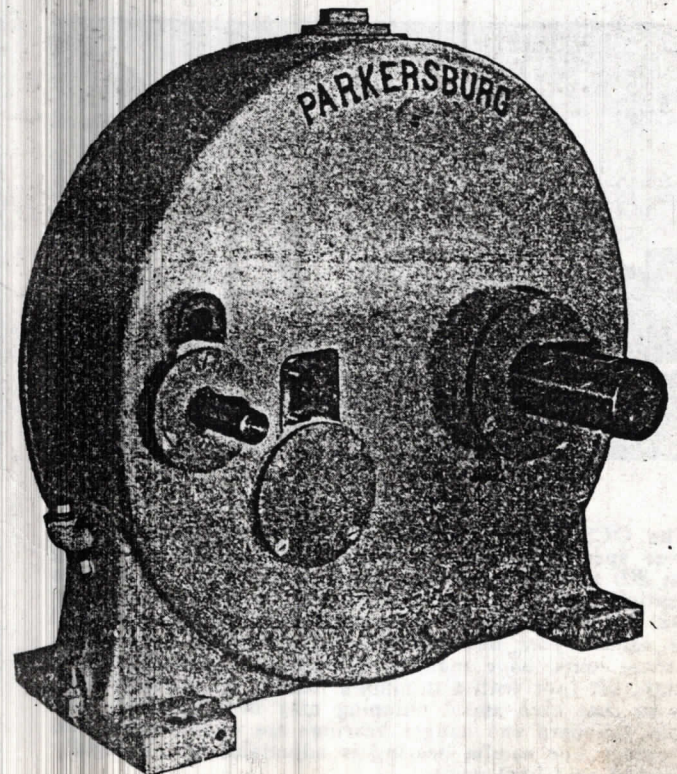
BEARINGS

Roller bearings of liberal size are used on high speed and intermediate speed shafts of Parkersburg reducers. The low speed shafts of all gear reducers are equipped with bronze bushings. Thrust collars on these bushings restrain the gear from endwise movement.

The high speed and intermediate shafts of all units are equipped with roller bearings, giving automatic centering of the gears so no adjustments are necessary for equal distribution of loading over the right and left hand helical teeth.

CIRCULAR TYPE GEAR CASE

Shown below is the newly developed circular gear case which has proved popular on the lighter types of Parkersburg pumps.



THE PARKERSBURG RIG & REEL CO., Parkersburg, West Virginia

OCS POLLY PUMPER DOUBLE REDUCTION

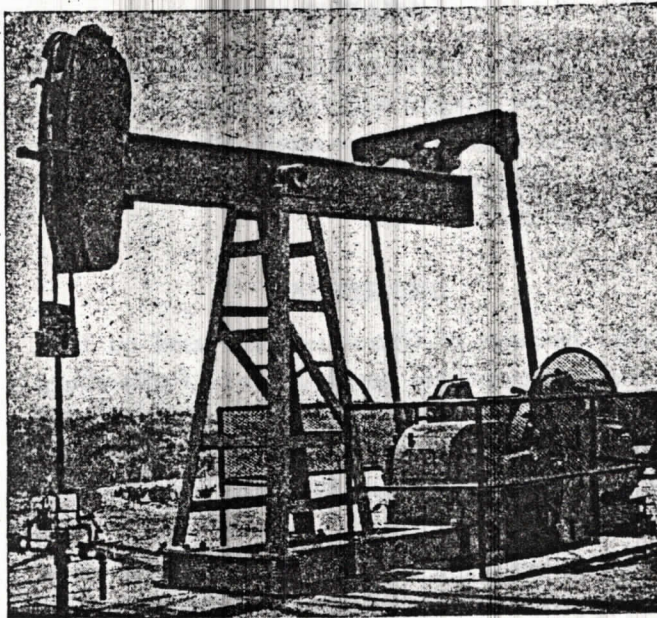


FIG. A-174
OCS 34C57DK12 1/2 A3 (10D2A) Polly Pumper

The Polly Pumps are made in sizes from 57,000" pounds to 320,000" pounds peak torque h.p. and are double reduction and designed for permanent installations with higher speed prime movers. The Polly Pumps are made for installation on concrete foundations and vary some in construction to suit the preference of the purchaser. The double reduction Reducer described on Page 3023 provides the proper reduc-

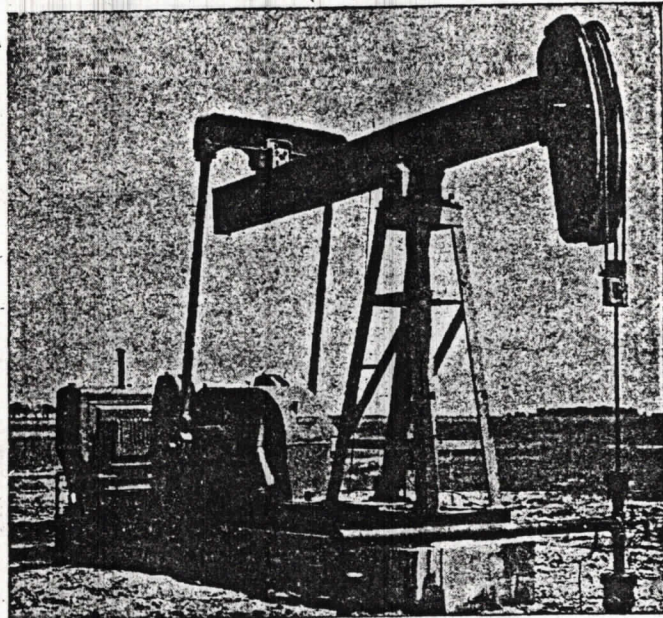


FIG. A-164
OCS 44C114DK17A7 (22 1/2 D3) Polly Pumper

tion for medium and high speed engines or electric motors and may be set directly on the skids or elevated for crank and balance clearance as illustrated. The same type of construction prevails with Tapered Roller Bearings and Diamond Roller Chain, the saddle, tailboard and hanger bearing weather proof and self-oiling. The double reduction reducer is described on Page 3023.

OCS BAT PUMPER—SINGLE REDUCTION

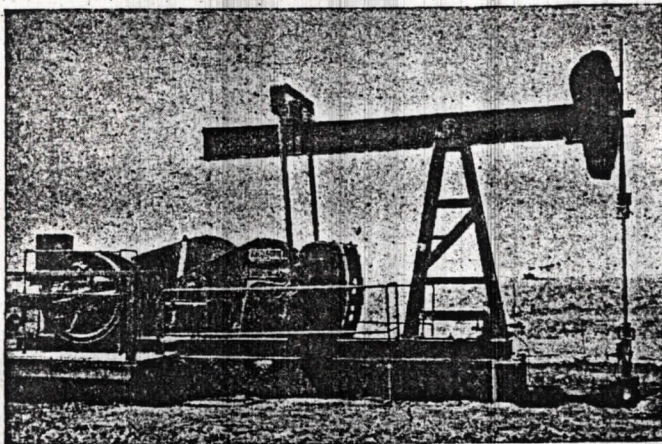


FIG. A-169
OCS 34C70SK12 1/2 A3 (10S2A) Bat Pumper

The OCS single reduction Pumps are built to apply slower speed engines to pumping wells. Engines running from 200 to 700 r.p.m. will operate wells with these units at satisfactory pumping speeds with the proper primary drive. The Reducer itself is described on page 2384. The steel base, samson post, beam and pitman, as well as the hangers on these units, have many novel features. The beam is a straight lift type with a minimum number of working bearings so that high speed pumping may be performed. The saddle, tailboard and hanger bearings are weatherproof and self-oiling. The saddle bearing is adjustable and is rigidly supported on tripod posts.

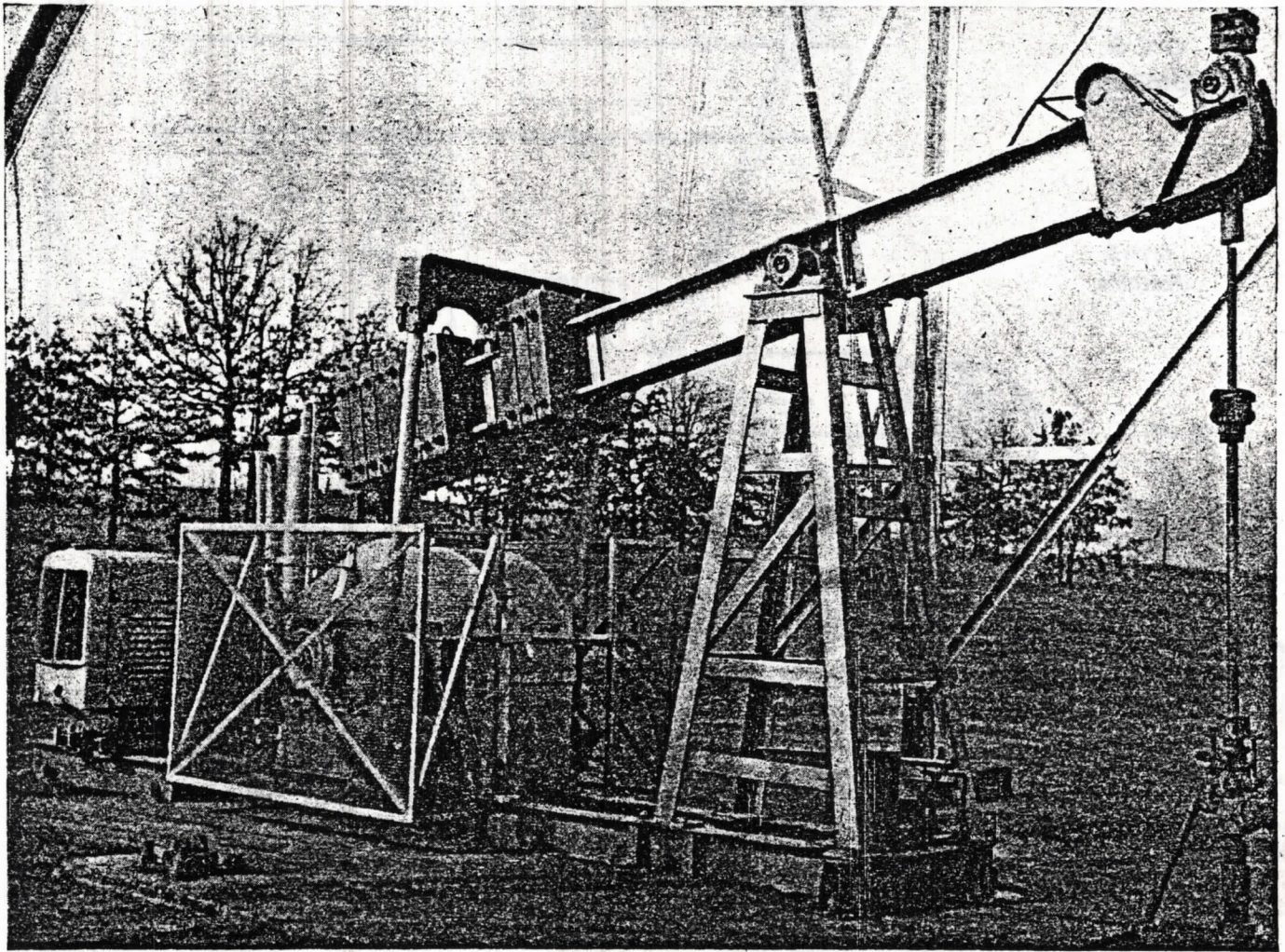


FIG. A-158
OCS 44C80SK17A4 (15S2) Bat Pumper

These Pumps are equipped with a spacing brake, OCS balanced cranks and equalizers. Beam weights are furnished as optional equipment or in combination.

Either adjustable engine slide rails or an idler may be provided for the belt drive from the engine. Prime movers may be set on the extended skids or the base extensions may be omitted for concrete installations.

These single reduction pumps are made in sizes 80,000" to 456,000" peak torque; are rugged, quiet, substantial machines that will give excellent service under the most trying conditions.

OCS PUMPERS—SINGLE REDUCTION

• OCS Type 34C57SK12 $\frac{1}{2}$ A4 Single Reduction Pumper

OCS PORTABLE PUMPERS

The OCS Portable Pumper is an enclosed, sturdy, compact and efficient machine. The wide spacing of

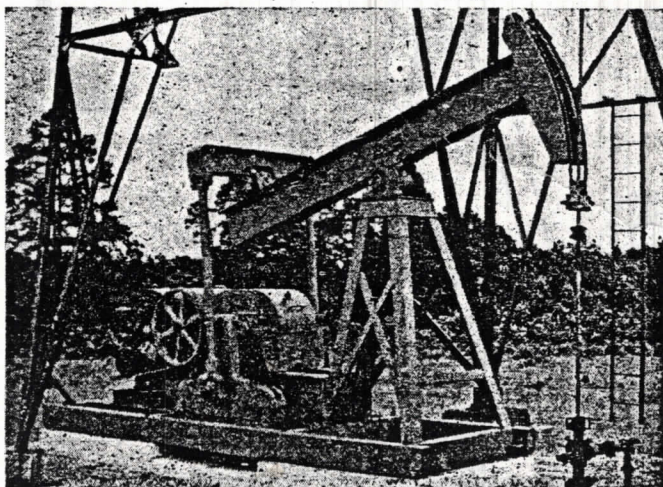


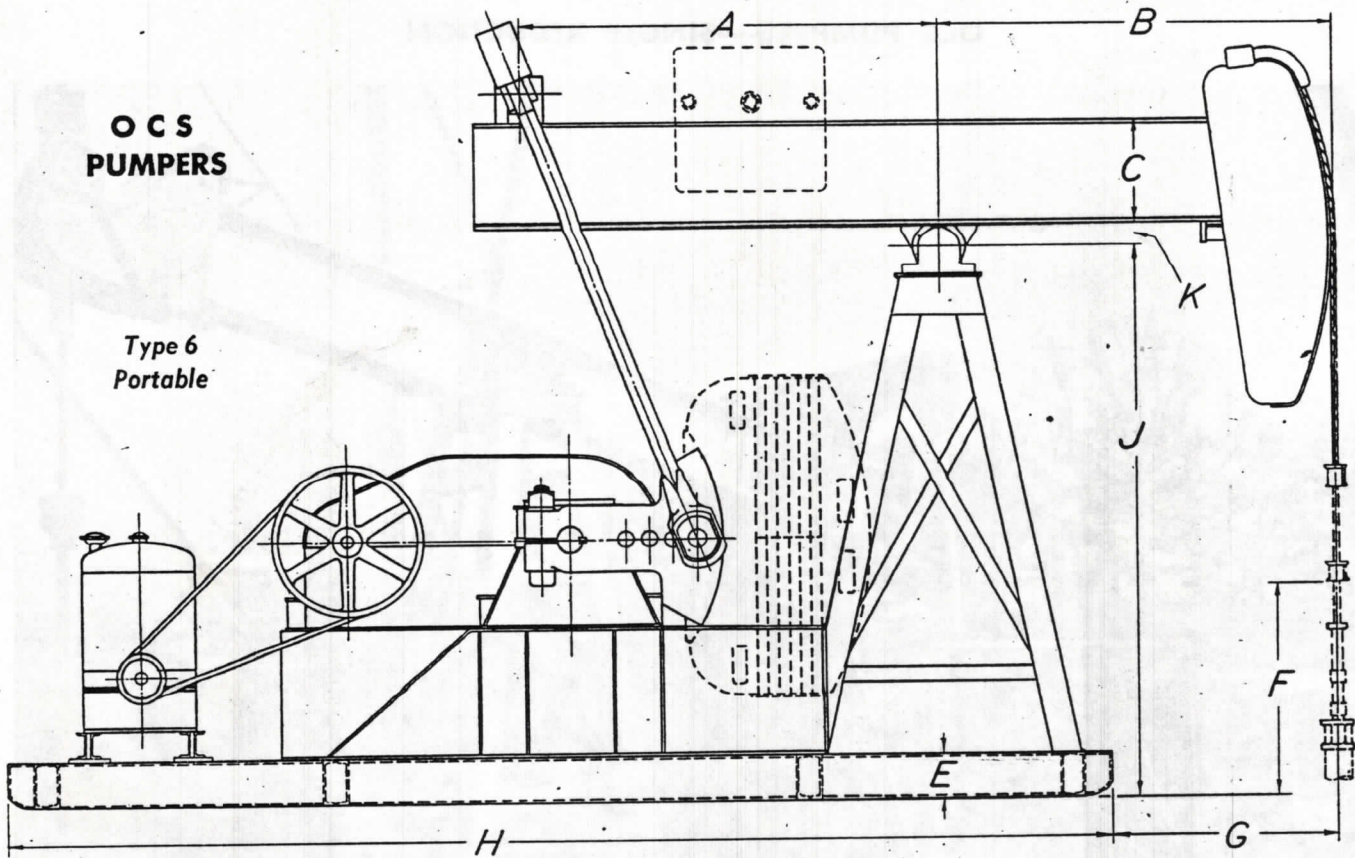
FIG. 330—OCS 44C114DK17B7 (22 $\frac{1}{2}$ D6 Duck) Duck Portable Pumper

the skids and the overall dimensions make these machines suitable for setting on temporary foundations. They incorporate the high efficiency of roller chains and roller bearings in totally enclosed self-oiling units. They can be equipped with electric motors or multi-cylinder engines and still be conveniently moved without dismantling. The first reduction is the conventional V-belt drive, while the slower speed reductions are multiple roller chain. The electrically welded steel case supports adjustable and self-aligning Tapered Roller Bearings and all run in an oil bath for lubrication. The wrist pin bearings are Tapered Roller Self-Aligning, while the beam bearings are weather-proof self-oiling bearings. A horsehead is used for the well connection in order to maintain a straight lift with a short beam when the maximum stroke is used. The portability of these machines and the ease of installation make them highly desirable and most compact.

THE PARKERSBURG RIG & REEL CO., Parkersburg, West Virginia

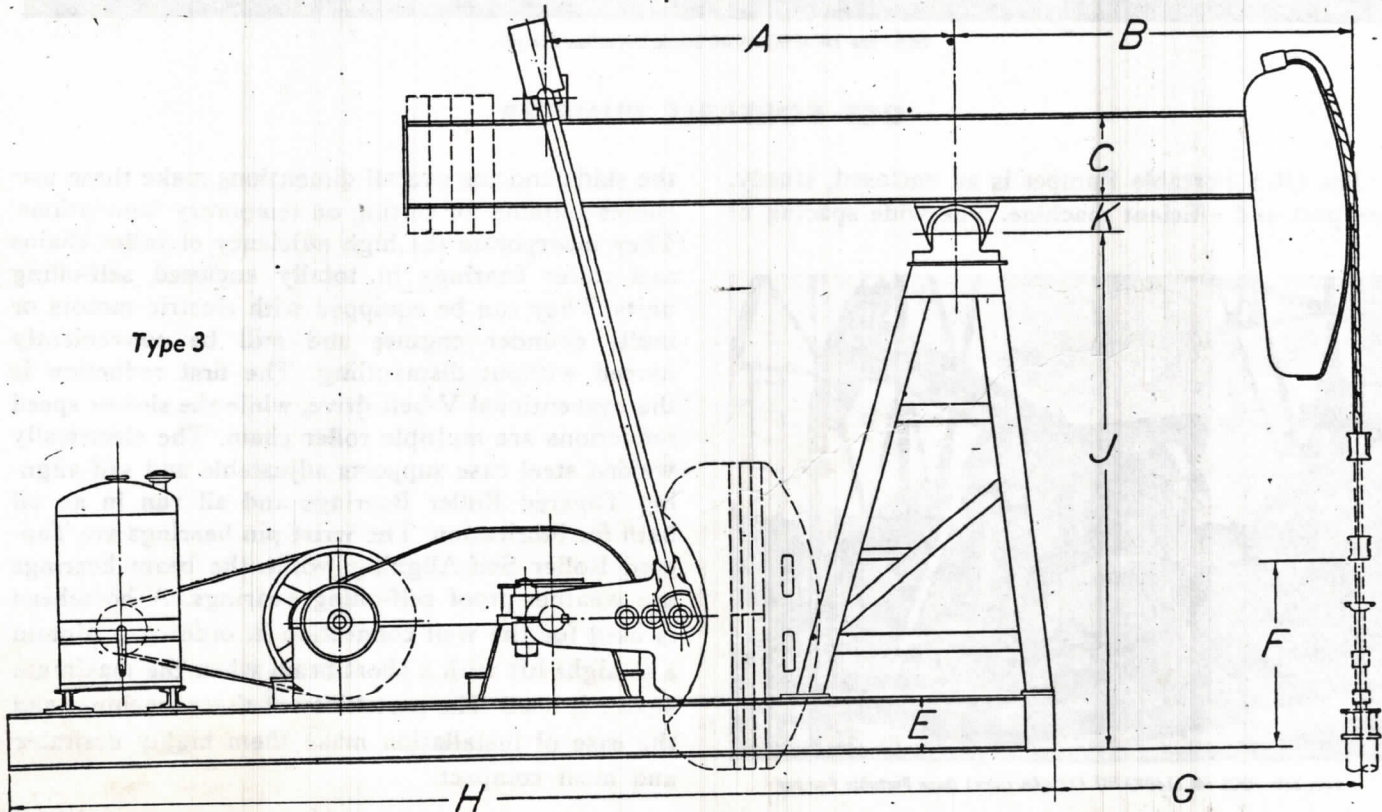
**OCS
PUMPERS**

Type 6
Portable

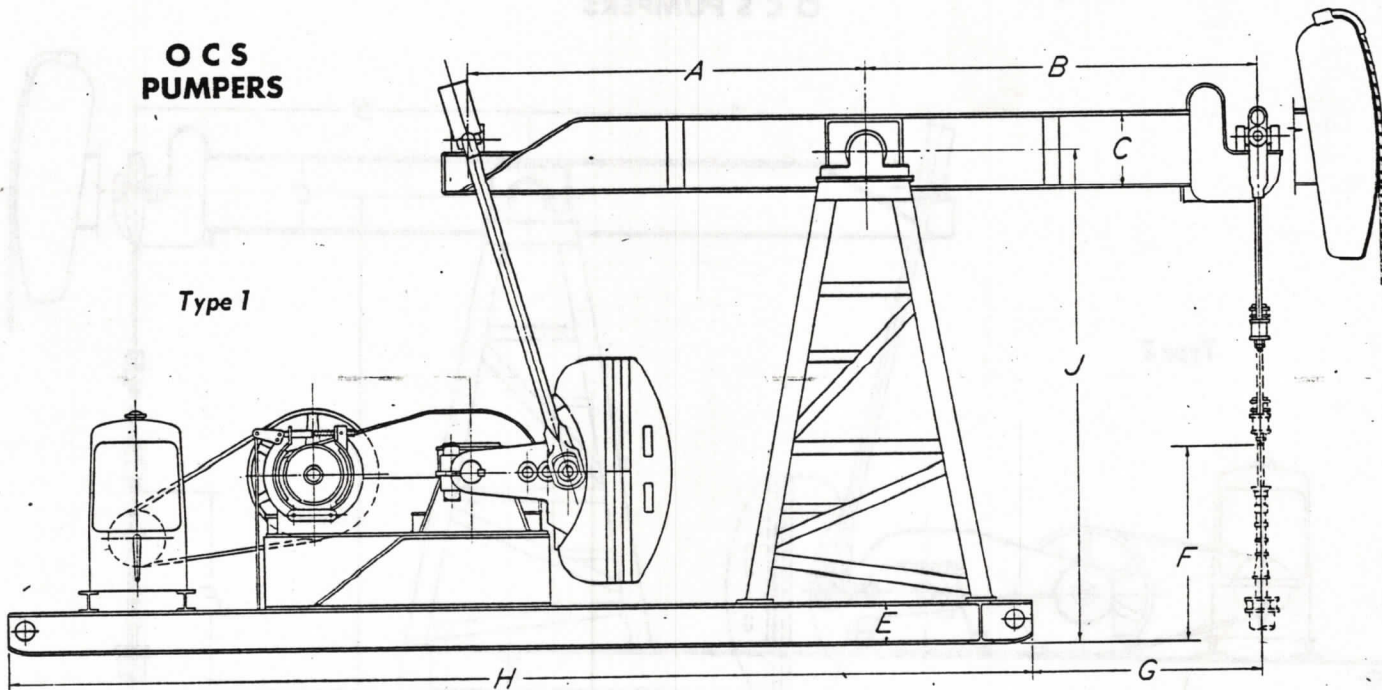


TYPE	"A"	"B"	"C"	"J"	"K"	"E"	"F"	"G"	"H"
34C57DK10B7 (10D6).....	5' 0"	5' 0"	12"-45 lb	9' 11"	4½"	8"	5' 1½"	2' 9"	16' 0"
44C114DK17B7 (22½D6).....	6' 2"	6' 2"	16"-71 lb	10' 7"	5"	10"	5' 6"	3' 3"	20' 1"
54C160DK20B7 (32½D6).....	7' 0"	7' 0"	21"-82 lb	11' 6"	5½"	10"	5' 1"	4' 0"	22' 0"
34C57DK10A7 (10D3).....	5' 0"	5' 0"	12"-45 lb	7' 8"	4½"	8"	2' 10½"	3' 4"	15' 5"
44C114DK17A7 (22½D3).....	6' 2"	6' 2"	16"-71 lb	9' 1"	5"	10"	4' 0"	4' 6"	18' 7"

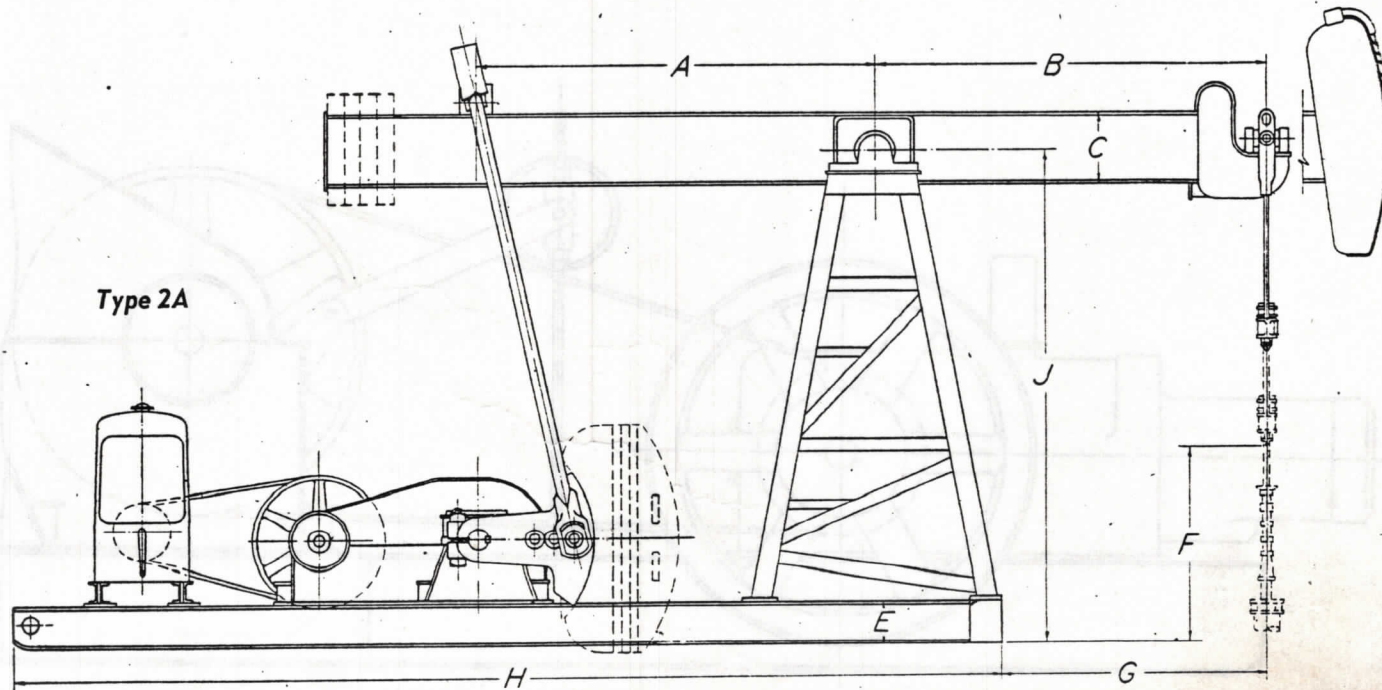
Type 3



THE PARKERSBURG RIG & REEL CO., Parkersburg, West Virginia



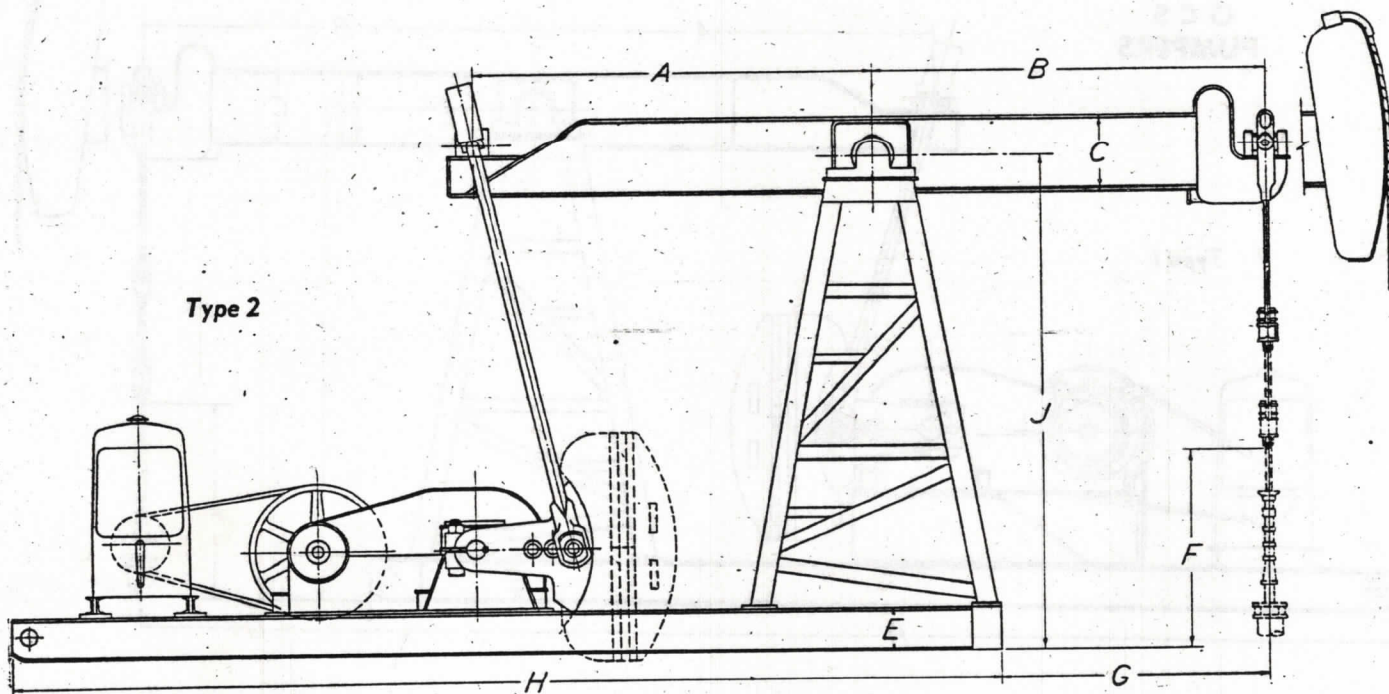
TYPE	"A"	"B"	"C"	"J"	"E"	"F"	"G"	"H"
54C160DK20A2 (32½D1).....	10' 0"	10' 0"	27"-106 lb	15' 0"	14"	6' 1"	6' 10"	25' 1"
74C456DK25A2 (40D1A).....	12' 6"	12' 6"	27"-145 lb	18' 4"	14"	4' 10"	7' 10"	31' 0"
74C320DK35A2 (65D1).....	12' 6"	12' 6"	33"-152 lb	18' 4½"	14"	4' 10"	7' 7"	33' 6"
74C371SK35A2 (75S1).....	12' 6"	12' 6"	33"-152 lb	18' 4½"	14"	4' 10"	7' 7"	.....
34C57DK12½A4 (10D2A).....	5' 11"	6' 0"	14"-61 lb	8' 1½"	8"	3' 1"	3' 11"	18' 3"
44C76DK12½A4 (15D2A).....	5' 11"	6' 0"	14"-61 lb	10' 0"	8"	2' 8"	3' 11"	18' 4"
44C76DK17A4 (15D2A-1).....	7' 0"	7' 0"	18"-70 lb	10' 0"	8"	4' 0"	4' 3½"	19' 11"
44C76DK17A4 (15D2A).....	8' 0"	8' 0"	18"-85 lb	12' 2"	10"	4' 11½"	5' 4"	21' 2½"
44C114DK17A4 (22½D2A).....	5' 11"	6' 0"	14"-61 lb	8' 1½"	8"	3' 1"	3' 11"	.....
34C70SK12½A4 (10A2A).....	5' 11"	6' 0"	14"-61 lb	10' 0"	8"	2' 8"	3' 11"	.....
44C80SK12½A4 (15S2A).....	7' 0"	7' 0"	18"-70 lb	10' 0"	8"	4' 0"	4' 3½"	.....
44C80SK17A4 (15S2A-1).....	8' 0"	8' 0"	18"-85 lb	12' 2"	10"	4' 11½"	5' 4"	.....
44C114SK17A4 (22½S2A).....	.....	.....	.....	.....	.....	.....	.....	.....



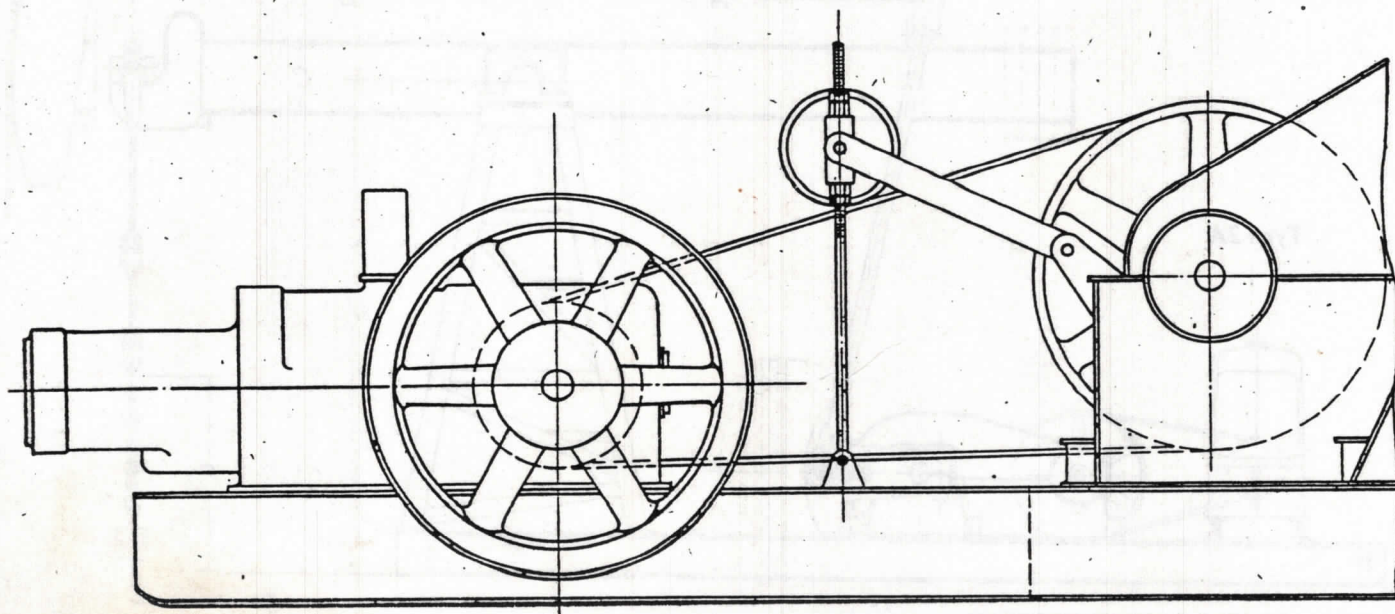
THE PARKERSBURG RIG & REEL CO., Parkersburg, West Virginia

O C S PUMPERS

Type 2



TYPE	"A"	"B"	"C"	"J"	"E"	"F"	"G"	"H"
54C160SK20A2	10' 0"	10' 0"	27"—106 lb	15' 0"	14"	6' 0"	7' 4"	
54C198SK25A2	11' 6"	11' 6"	27"—145 lb	17' 6"	14"	6' 0"	6' 10"	
74C228SK25A2	12' 6"	12' 6"	27"—145 lb	17' 6"	14"	4' 10"	6' 10"	



THE PARKERSBURG RIG & REEL CO., Parkersburg, West Virginia

PARKERSBURG PUMPERS

SPECIFICATIONS

	36-G96S-13-B4 (Long Base) (36BIU) Single Reduction	48-G96S-13-A5 (48BUS) Single Reduction	48-G80S-13-A5 Single Reduction	54-G114S-16-A5 Single Reduction	54-G149S-19-A8 (54HGS) Single Reduction	64-G203S-19-A8 Single Reduction	64-G203S-19-A7 Single Reduction	74-G295S-24-A5 (74L2LS) Single Reduction
Drawing Number	18401-X (K18-10)	18490-X (K18-10)	..... G80S	..... G114S	..... (J28-9) G149S	P-18764-X (J37-10) G203S	P-18785-X (J37-10) G203S	18254-3 (S-53-10) G295S
Reducer	G96S	G96S	.....	.....	.....	.....	.....	.....
Sheave Data:								
Maximum Pitch Diameter.....	28"	28"	28"	28"	27 3/8"	29 3/8"	29 3/8"	37 3/8"
Maximum Number Grooves with Belt Cover.....	5C	5C	5C	6C	7D	7D	7D	7D
Maximum Number Grooves without Belt Cover.....	5C	5C	5C	6C	7D	8D	8D	8D
Pumper Structure Specifications:								
Polished Rod Stroke.....	19", 27 1/4", 36"	28", 38", 48"	28", 38", 48"	34", 44", 54"	34", 44", 54"	34", 44", 54", 64"	34", 44", 54", 64"	44", 54", 64", 74"
Walking Beam Size and Weight.....	16"-58 lb C.B.	18"-55 lb C.B.	16"-58 lb C.B.	24"-76 lb C.B.	24"-100 lb C.B.	24"-100 lb C.B.	24"-100 lb C.B.	24"-120 lb
Walking Beam Working Centers.....	12' 0"	12' 0"	12' 0"	16' 0"	20' 0"	20' 0"	20' 0"	25' 0"
Walking Beam A.P.I. Rating.....	12,500 lb	12,700 lb	12,700 lb	16,350 lb	19,000 lb	19,000 lb	19,000 lb	24,400 lb
Walking Beam Parkersburg Rating.....	15,000 lb	15,300 lb	15,250 lb	19,850 lb	22,800 lb	22,800 lb	22,800 lb	29,250 lb
Hanger Bearing Type and Size.....	Rod 4 1/2"x7"	Horsehead	Horsehead	Horsehead	Rein 4 1/2"x9"	Rein 4 1/2"x9"	Horsehead	Rein 4 1/2"x9"
Wrist Pin—Diameter at Crank.....	Roller Brg. 2 1/2"	Roller Brg. 3 1/2"	Roller Brg. 3 1/2"	Roller Brg. 3 1/2"	Roller Brg. 3 1/2"	Roller Brg. 3 1/2"	Roller Brg. 3 1/2"	Roller Brg. 3 1/2"
Saddle Bearing—Self Oiling—Size.....	6"x8 3/4"	5"x10"	5"x10"	6"x10"	6"x10"	6"x10"	6"x10"	8"x13 1/4"
Saddle Bearing—Projected Area.....	51 Sq. In.	50 Sq. In.	50 Sq. In.	60 Sq. In.	Needle Bearing	Needle Bearing	Needle Bearing	110 Sq. In.
Tailboard Bearing Size.....	3 1/2"x7 1/4"	5"x5 3/4"	5"x5 3/4"	4 1/2"x8 1/4"	4 1/2"x8 1/4"	4 1/2"x8 1/4"	4 1/2"x8 1/4"	5"x9 1/4"
Tailboard Bearing—Projected Area.....	25 3/4 Sq. In.	28 3/4 Sq. In.	Roller Bearing	Roller Bearing	37 3/4 Sq. In.	37 3/4 Sq. In.	37 3/4 Sq. In.	47 3/4 Sq. In.
Samson Post Height to C.L. of Saddle Bearing.....	8'-4"	9'-2 3/4"	10'-10"	11'-10"	11'-1"	13'-7"	13'-7"	15'-7"
Height of Foundation to Top of Walking Beam.....	9'-0"	11'-0"	12'-5 1/2"	14'-3"	13'-6"	16'-0"	16'-0"	17'-11 1/4"
Height Foundation to C.L. Reducer Crankshaft.....	25"	27"	33"	33"	44"	44 1/2"	44 1/2"	48 1/2"
Steel Base Section, Size and Weight.....	8"-17 lb C.B.	10"-21 lb C.B.	10"-21 lb C.B.	12"-27 lb C.B.	12"-25 lb C.B.	12"-25 lb C.B.	12"-25 lb C.B.	16"-36 lb C.B.
Width Base.....	x18'-5 1/2" Long	x10'-1" Long	x11'-8" Long	x14'-0" Long	x18'-6 1/2" Long	x17'-8" Long	x17'-8" Long	x23'-7 1/2" Long
Base Clearance with Well Center.....	22 1/2"	22 1/2"	30"	30"	38"	38"	38"	38"
Weight with Reducer.....	7,269 lb	7,555 lb	.....	.....	13,745 lb	14,654 lb	15,320 lb	20,674 lb
Counterbalance:								
Maximum Effective Beam Counterbalance.....	6,596 lb	4,000 lb	2,700 lb	3,740 lb	2,370 lb	2,370 lb	2,370 lb	10,455 lb
Maximum Effective Crank Counterbalance.....	None	7,500 lb	6,700 lb	10,500 lb	10,930 lb	10,330 lb	10,330 lb	10,150 lb

OCS PUMPERS—SPECIFICATIONS

	34C70SK12 1/2 A4 (10S2A Bat) Single Reduction	44C80SK12 1/2 A4 (15S2A Bat) Single Reduction	44C80SK17A4 (15S2A-1 Bat) Single Reduction
Pumper Reducer Specifications:	C70SK	C80SK	C80SK
Sheave Data:			
Standard Pitch Diameter and No. of Grooves.....	44" 3C	42" 3D	42" 3D
Maximum Pitch Diameter.....	44" P.D.	42" P.D.	42" P.D.
Maximum No. of Grooves with Belt Cover.....	4C	3D	3D
Maximum No. of Grooves without Belt Cover.....	5C	3D	3D
Pumper Structure Specifications:			
Polish Rod Stroke, Standard.....	18", 26", 34"	24", 34", 44"	24", 34", 44"
Crank Part No. used to Obtain Standard Stroke.....	37432	37149C	37174B
Polish Rod Stroke, Maximum.....	44"	44"	54"
Crank Part No. used to Obtain Maximum Stroke.....	37149B	37149C	37958
Walking Beam, Size and Weight.....	14"x10"-61 lb	14"x10"-61 lb	18"x8 3/4"-70 lb
Walking Beam, Working Centers.....	11' 11"	14' 0"	14' 0"
Walking Beam, O. C. S. Rating.....	12,500 lb	12,500 lb	17,000 lb
Walking Beam, A.P.I. Rating.....	12,805 lb	12,805 lb	14,285 lb
Hanger Bearing, Self-Oiling, Size.....	3 1/2"x8"	3 1/2"x8"	4"x8 3/4"
Wrist Pin, Diameter at Crank.....	2 1/2"	2 1/2"	2.929"
Saddle Bearing, Self-Oiling, Size.....	5"x9"	5"x9"	5"x11 1/4"
Saddle Bearing, Self-Oiling, Projected Area.....	45 Sq. In.	45 Sq. In.	57 1/2 Sq. In.
Tailboard Bearing, Size.....	3 1/2"x6"	3 1/2"x6"	4"x6 3/4"
Tailboard Bearing, Projected Area.....	21 Sq. In.	21 Sq. In.	27 Sq. In.
Samson Post, Height to C. L. Bearing.....	8' 1 1/2"	10' 0"	10' 0"
Samson Post, 4 Legs, Size of Legs.....	1 1/2"x4"x4"	1 1/2"x4"x4"	1 1/2"x4"x4"
Steel Base, Standard Section, Size and Weight.....	8"x5 1/2"-17 lb	8"x5 1/2"-17 lb	8"x5 1/2"-17 lb
Overall Length from Center of Well.....	**	**	**
Polish Rod Clamp.....	2 Bolt	2 Bolt	2 Bolt
Weight with Reducer.....	7,400 lb	8,100 lb	9,700 lb
Counterbalance Specifications:			
Cranktype Counterbalance, Size.....	2-6"	2-6"	2-8" Special
Cranktype Counterbalance, Light, Weight Each.....	750 lb	750 lb	1,200 lb
Cranktype Counterbalance, Heavy, Weight Each.....	1,025 lb	1,025 lb	1,675 lb
Extra Weights for Beam.....	400 lb	400 lb	400 lb

** Depends on type of engine.

THE PARKERSBURG RIG & REEL CO., Parkersburg, West Virginia

PARKERSBURG PUMPERS

SPECIFICATIONS

	74-G340S-24-A8 (74L2NS) Single Reduction	28-G25D-7-B5 (Long Base) Double Reduction	34-G40D-10-A5 Double Reduction	34-G40D-10-B5 (Long Base) Double Reduction	42-G57D-10-A5 Double Reduction	42-G57D-10-B5 (Long Base) Double Reduction	48-G80D-13-A5 Double Reduction
Drawing No.....	18254-W (S61-9) G340S	P-18703-1X (M5-32) G25D	P-18746-X (M8-30) G40D	P-18710-X (M8-30) G40D	P-18730-X (M11½-30) G57D	P-18734-X (M11½-30) G57D	18839-X G80D
Reducer.....							
Sheave Data:							
Maximum Pitch Diameter.....	37½"	21½"	24"	24"	24"	24"	26¼"
Maximum Number Grooves with Belt Cover.....	7D	3 Comb. A & B	2C	2C	3C	3C	4C
Maximum Number Grooves without Belt Cover.....	8D	3 Comb. A & B	2C	2C	3C	3C	5C
Pumper Structure Specifications:							
Polish Rod Strokes.....	44", 54", 64", 74"	18", 28"	19", 26½", 34"	19", 26½", 34"	22", 32", 42"	22", 32", 42"	28", 38", 48"
Walking Beam, Size and Weight.....	24" — 120 lb	12" — 25 lb C.B.	14" — 38 lb C.B.	14" — 38 lb C.B.	14" — 43 lb C.B.	14" — 43 lb C.B.	18" — 58 lb C.B.
Walking Beam, Working Centers.....	25' 0"	7' 0"	9' 0"	9' 0"	10' 0"	10' 0"	12' 0"
Walking Beam, A.P.I. Rating.....	24,400 lb	7,360 lb	9,970 lb	9,970 lb	10,400 lb	10,400 lb	12,700 lb
Walking Beam, Parkersburg Rating.....	29,280 lb	8,830 lb	11,980 lb	11,980 lb	15,530 lb	15,530 lb	15,240 lb
Hanger Bearing, Type and Size.....	Rein 4½"x9"	Horsehead	Horsehead	Horsehead	Horsehead	Horsehead	Horsehead
Wrist Pin, Diameter at Crank.....	Roller Brg. 3½"	Roller Brg. 2½"	Roller Brg. 2½"	Roller Brg. 2½"	Roller Brg. 2½"	Roller Brg. 2½"	Roller Brg. 3½"
Saddle Bearing, Self-Oiling, Size.....	8"x13½"	4½"x5½"	4"x10"	4"x10"	4"x10"	4"x10"	5"x10"
Saddle Bearing, Projected Area.....	110 Sq. In.	25½ Sq. In.	40 Sq. In.	40 Sq. In.	40 Sq. In.	40 Sq. In.	50 Sq. In.
Tailboard Bearing, Size.....	5"x9½"	Roller Bearing	Roller Bearing	Roller Bearing	Roller Bearing	Roller Bearing	Roller Brg.
Tailboard Bearing, Projected Area.....	47½ Sq. In.						
Samson Post, Height to C.L. of Saddle Bearing.....	15' 7"	6' 4½"	7' 11½"	7' 11½"	8' 10"	8' 10"	10' 10"
Height, Foundation to Top of Walking Beam.....	17' 11½"	7' 7½"	9' 5"	9' 5"	10' 3¼"	10' 3¼"	12' 5½"
Height, Foundation to C.L. Reducer Crankshaft.....	48½"	22½"	25"	36"	25"	36"	32"
Steel Base Section, Size and Weight.....	16" — 36" lb C.B. x23' 7½" Long	8" — 17 lb C.B. x10' 4" Long	8" — 17 lb C.B. x8' 11½" Long	8" — 17 lb C.B. x12' 9" Long	8" — 17 lb C.B. x9' 8½" Long	8" — 17 lb C.B. x13' 2" Long	10" — 21 lb C.B. x11' 8" Long
Width Base.....	38"	14"	22½"	22½"	22½"	22½"	30"
Base Clearance with Well Center.....	91½"	31"	40½"	40½"	46½"	46½"	45"
Weight, with Reducer.....	20,700 lb	2,828 lb	4,402 lb	4,660 lb	5,006 lb	5,329 lb	7,000 lb
Counterbalance:							
Maximum Effective Beam Counterbalance.....	10,465 lb	4,916 lb	5,911 lb	5,911 lb	8,387 lb	8,387 lb	2,700 lb
Maximum Effective Crank Counterbalance.....	10,150 lb	None	1,776 lb	1,776 lb	1,438 lb	1,438 lb	6,700 lb

OCS PUMPERS—SPECIFICATIONS

	44C114SK17A4 (22½S2A Bat) Single Reduction	54C160SK20A2 (32½S2 Bat) Single Reduction	54C198SK25A2 (40S2 Bat) Single Reduction	74C228SK25A2 (50S2 Bat) Single Reduction	74C456SK35A2 (75S1 Bat) Single Reduction
Pumper Reducer Specifications.....	C114SK	C160SK	C198SK	C228SK	C456SK
Sheave Data:					
Standard Pitch Diameter and No. of Grooves.....	42" 4D	52" 5D	49" 6D	56" 7D.	*72" P.D. 8D
Maximum Pitch Diameter.....	42" P.D.	52"	56"	72"	72"
Maximum No. of Grooves with Belt Cover.....	4D	5D	6D	7D	*8D
Maximum No. of Grooves without Belt Cover.....	4D	5D	7D	8D	*8D
Pumper Structure Specifications:					
Polish Rod Stroke, Standard.....	24", 34", 44"	24", 34", 44", 54"	24", 34", 44", 54"	24", 34", 44", 54", 64", 74"	24", 34", 44", 54", 64", 74"
Crank Part No. used to Obtain Std. Stroke.....	371312	37374B	37374B	95204B	9573M
Polish Rod Stroke, Maximum.....	54"	64"	74"		
Crank Part No. used to Obtain Max. Stroke.....	37958A	37806C	95204L		
Walking Beam, Size and Weight.....	18"x8½" — 85 lb	27"x10" — 106 lb	27"x14" — 145 lb	27"x14" — 145 lb	33"x11½" — 152 lb
Walking Beam, Working Centers.....	16' 0"	20' 0"	25' 0"	25' 0"	25' 0"
Walking Beam, O. C. S. Rating.....	17,000 lb	20,000 lb	25,000 lb	25,000 lb	35,000 lb
Walking Beam, A.P.I. Rating.....	14,500 lb	19,700 lb	24,050 lb	24,050 lb	26,500 lb
Hanger Bearing, Self-Oiling, Size.....	4"x6¾"	4½"x8½"	5"x9½"	5"x9½"	5"x9½"
Wrist Pin, Diameter at Crank.....	2.929"	3½"	3½"	4"	4"
Saddle Bearing, Self-Oiling, Size.....	5"x11½"	5½"x14½"	6"x14½"	6"x14½"	7"x17"
Saddle Bearing, Self-Oiling, Projected Area.....	57½ Sq. In.	79½ Sq. In.	87 Sq. In.	87 Sq. In.	119 Sq. In.
Tailboard Bearing, Size.....	4"x6¾"	4½"x8½"	5"x9½"	5"x9½"	5"x9½"
Tailboard Bearing, Projected Area.....	27 Sq. In.	47½ Sq. In.	47½ Sq. In.	47½ Sq. In.	47½ Sq. In.
Samson Post, Height to C. L. Bearing.....	12' 2"	15' 0"	18' 4"	18' 4"	18' 4½"
Samson Post, 4 Legs, Size of Legs.....	½"x5"x5"	½"x6"x6"	½"x8"x8"	½"x8"x8"	½"x8"x8"
Steel Base, Std. Section, Size and Weight.....	10"x5½" — 23 lb	14"x6¾" — 30 lb	14"x6¾" — 30 lb	14"x10" — 61 lb	14"x10" — 61 lb
Overall Length from Center of Well.....	**	**	**	**	**
Polish Rod Clamp.....	2 Bolt	3 Bolt	4 Bolt	4 Bolt	6 Bolt
Weight with Reducer.....	12,500 lb	17,300 lb	24,000 lb	31,000 lb	38,800 lb
Counterbalance Specifications:					
Cranktype Counterbalance, Size.....	2—8" Special	2—7"	2—7"	2—8"	2—8"
Cranktype Counterbalance, Light. Wt., Each.....	1,200 lb	1,400 lb	1,400 lb	1,900 lb	1,900 lb
Cranktype Counterbalance, Heavy. Wt., Each.....	1,675 lb	1,900 lb	1,900 lb	2,500 lb	2,500 lb
Extra Weights for Beam.....	400 lb				

** Depends on type of engine.

THE PARKERSBURG RIG & REEL CO., Parkersburg, West Virginia

PARKERSBURG PUMPERS

SPECIFICATIONS

	48-G80D-13-B5 (Long Base)	54-G99D-15-A7	54-G145D-15-B5 (Long Base)	54-G145D-19-B7	54-G124D-15-A5 (Long Base)	54-G99D-15-B5 (54K2C1) Double Reduction	54-G114D-A5	54-G114D-B5 (Long Base)
	Double Reduction	Double Reduction	Double Reduction	Double Reduction	Double Reduction	Double Reduction	Double Reduction	Double Reduction
Drawing No.	18833-X	18499-Y (K20-26) G99D	18663-X (K30-20) G145D	(K30-20) G145D	18411-X (K25-20) G124D	18472-X (K20-26) G99D	G114D	G114D
Reducer	G80D							
Sheave Data:								
Maximum Pitch Diameter	26 1/2"	29 1/2"	36 1/2"	36 1/2"	36 1/2"	29 1/2"	29 1/2"	29 1/2"
Maximum Number Grooves with Belt Cover	4C	5C	5C	5C	5C	5C	5C	5C
Maximum Number Grooves without Belt Cover	5C	6C	6C	6C	6C	6C	6C	6C
Pumper Structure Specifications:								
Polish Rod Strokes	28", 38", 48"	34", 44", 54"	34", 44", 54"	34", 44", 54"	34", 44", 54"	34", 44", 54"	34", 44", 54"	34", 44", 54"
Walking Beam, Size and Weight	16"-58 lb C.B.	21"-68 lb C.B.	21"-68 lb C.B.	24"-100 lb C.B.	21"-68 lb C.B.	21"-68 lb C.B.	24"-76 lb C.B.	24"-76 lb C.B.
Walking Beam, Working Centers	12'-0"	14'-0"	14'-0"	20'-0"	14'-0"	14'-0"	16'	16'-0"
Walking Beam, A.P.I. Rating	12,700 lb	15,200 lb	15,200 lb	19,000 lb	15,200 lb	15,200 lb	16,350 lb	16,350 lb
Walking Beam, Parkersburg Rating	15,240 lb	18,400 lb	18,400 lb	22,800 lb	18,400 lb	18,400 lb	19,850 lb	19,850 lb
Hanger Bearing, Type and Size	Horsehead	Horsehead	Horsehead	Horsehead	Horsehead	Horsehead	Horsehead	Horsehead
Wrist Pin, Diameter at Crank	Roller Brg. 3 1/2"	Roller Brg. 3 1/2"	Roller Brg. 3 1/2"	Roller Brg. 3 1/2"	Roller Brg. 3 1/2"	Roller Brg. 3 1/2"	Roller Brg. 3 1/2"	Roller Brg. 3 1/2"
Saddle Bearing, Self-Oiling, Size	5"x10"	6"x10"	6"x10"	Needle Bearing	6"x10"	6"x10"	6"x10"	6"x10"
Saddle Bearing, Projected Area	50 Sq. In.	60 Sq. In.	60 Sq. In.	4 1/2"x8 1/2"	60 Sq. In.	60 Sq. In.	60 Sq. In.	60 Sq. In.
Tailboard Bearing, Size	Roller Bearing	4"x6 3/4"	5 1/2"x6 3/4"	37 3/4" Sq. In.	5 1/2"x6 3/4"	5 1/2"x6 3/4"	Roller Bearing	Roller Bearing
Tailboard Bearing, Projected Area	Roller Bearing	27 Sq. In.	37 3/4" Sq. In.	37 3/4" Sq. In.	37 3/4" Sq. In.	37 3/4" Sq. In.	Roller Bearing	Roller Bearing
Samson Post, Height to C.L. of Saddle Bearing	10'-10"	10'-3 1/4"	11'-7 1/4"	13'-7"	10'-3 1/4"	11'-7 1/4"	11'-10"	11'-10"
Height, Foundation to Top of Walking Beam	12'-5 1/2"	12'-5 1/2"	13'-9 1/2"	16'-0"	12'-5 1/2"	13'-9 1/2"	14'-3"	14'-3"
Height, Foundation to C.L. Reducer Crankshaft	48"	44"	60"	63 1/4"	44"	60"	33"	61"
Steel Base Section, Size and Weight	10"-21 lb C.B.	12"-25 lb C.B.	12"-25 lb C.B.	12"-25 lb C.B.	12"-25 lb C.B.	12"-25 lb C.B.	10"-25 lb C.B.	12"-27 lb C.B.
Width Base	x18'-3" Long	x10'-10 5/8" Long	x16'-6 3/8" Long	x23'-3 1/4" Long	x16'-4 3/8" Long	x16'-6 3/8" Long	x14' Long	x21'-2 1/4" Long
Base Clearance with Well Center	30 1/2"	30"	38"	38"	30"	30"	30"	30"
Weight, with Reducer	45"	73 5/8" lb	71 5/8" lb	75 1/2" lb	73 5/8" lb	71 5/8" lb	63 5/8" lb	63 5/8" lb
Counterbalance:								
Maximum Effective Beam Counterbalance	2,700 lb	4,010 lb	4,010 lb	2,370 lb	4,010 lb	4,010 lb	3,740 lb	4,000 lb
Maximum Effective Crank Counterbalance	6,700 lb	8,310 lb	8,310 lb	10,040 lb	8,310 lb	8,310 lb	10,500 lb	8,000 lb

OCS PUMPERS—SPECIFICATIONS

	34C57DK10B7 (10D6 Gaslin) Double Reduction	34C57DK10A7 (10D3) Double Reduction	34C57DK12 1/2 A4 (10D2A) Double Reduction
Pumper Reducer Specifications:			
Sheave Data:			
Standard Pitch Diameter and No. of Grooves	C57DK	C57DK	C57DK
Maximum Pitch Diameter	30 1/2" 2C	30 1/2" 2C	30 1/2" 2C
Maximum No. of Grooves with Belt Cover	40"	40"	40"
Maximum No. of Grooves without Belt Cover	3C	3C	3C
Pumper Structure Specifications:			
Polish Rod Stroke, Standard	18", 26", 34"	18", 26", 34"	18", 26", 34"
Crank Part No. used to Obtain Standard Stroke	37432	37432	37432
Polish Rod Stroke, Maximum	42"	44"	44"
Crank Part No. used to Obtain Maximum Stroke	Move Brg.	37149B	37149B
Walking Beam, Size and Weight	12"x8"-45 lb	12"x8"-45 lb	14"x10"-61 lb
Walking Beam, Working Centers	10' 0"	10' 0"	11' 11"
Walking Beam, O. C. S. Rating	10,000 lb	10,000 lb	12,500 lb
Walking Beam, A.P.I. Rating	9,700 lb	9,700 lb	12,805 lb
Hanger Bearing, Self-Oiling, Size	Horsehead	Horsehead	3 1/2"x6"
Wrist Pin, Diameter at Crank	2 1/2"	2 1/2"	5 1/2"x9"
Saddle Bearing, Self-Oiling, Size	4 1/2"x9 3/4"	4 1/2"x9 3/4"	5"x9"
Saddle Bearing, Self-Oiling, Projected Area	43.9 Sq. In.	43.9 Sq. In.	45 Sq. In.
Tailboard Bearing, Size	3 1/2"x6"	3 1/2"x6"	3 1/2"x6"
Tailboard Bearing, Projected Area	21 Sq. In.	21 Sq. In.	21 Sq. In.
Samson Post, Height to C. L. Bearing	9' 11"	9' 11"	8' 1 1/2"
Samson Post, 4 Legs, Size of Legs	1 1/2"x4"x4"	1 1/2"x4"x4"	1 1/2"x4"x4"
Steel Base, Standard Section, Size and Weight	8"x5 1/4"-17 lb	8"x5 1/4"-17 lb	8"x5 1/4"-17 lb
Overall Length from Center of Well	18'-9"***	18' 8"***	19' 8"***
Polish Rod Clamp	2 Bolt	2 Bolt	2 Bolt
Weight with Reducer	6,650 lb		
Counterbalance Specifications:			
Cranktype Counterbalance, Size	2-6"	6"	6"
Cranktype Counterbalance, Light, Weight, Each	750 lb	750 lb	750 lb
Cranktype Counterbalance, Heavy, Weight, Each	1,025 lb	1,025 lb	1,025 lb
Scale Type Adjustable Balance, Weight	1,000 lb	1,000 lb	
Scale Type Adjustable Balance, Weight	3,000 lb	3,000 lb	
Scale Type Adjustable Balance, Weight	4,000 lb	4,000 lb	
Extra Weights for Beam	400 lb	400 lb	400 lb

** Depends on type of engine.

THE PARKERSBURG RIG & REEL CO., Parkersburg, West Virginia

PARKERSBURG PUMPERS

SPECIFICATIONS

	54-G124D-15-B5 (Long Base) (54K2X) Double Reduction	64-G220D-19-B7 Double Reduction	64-G220D-19-A8 Double Reduction	64-G220D-25-B7 Double Reduction	64-G220D-19-B6 (Long Base) Double Reduction	64-G220D-19-B5 (Long Base) Double Reduction	64-G220D-25-B5 (Long Base) Double Reduction	64-G228D-2C-A3 Double Reduction
Drawing No.	18466-X (K25-20) G124D	(J40-20) G220D	(J40-20) G220D	(J40-20) G220D	P-18782-X (J40-20) G220D	18656-X (J40-20) G220D	18671-X (J40-20) G220D	G228D
Reducer								
Sheave Data:								
Maximum Pitch Diameter	36 1/2"	41 1/8"	41 1/8"	41 1/8"	41 1/8"	41 1/8"	41 1/8"	41 1/8"
Maximum Number Grooves with Belt Cover	5C	6D	6D	6D	6D	6D	6D	6D
Maximum Number Grooves without Belt Cover	6C	7D	7D	7D	7D	7D	7D	7D
Pumper Structure Specifications:								
Polish Rod Strokes	34", 44", 54"	34", 44", 54", 64"	34", 44", 54", 64"	34", 44", 54", 64"	34", 44", 54", 64"	34", 44", 54", 64"	34", 44", 54", 64"	44", 54", 64"
Walking Beam, Size and Weight	21" - 68 lb C.B.	24" - 100 lb C.B.	24" - 100 lb C.B.	24" - 100 lb	24" - 100 lb C.B.	24" - 100 lb C.B.	24" - 100 lb	27" - 114 lb C.B.
Walking Beam, Working Centers	14'-0"	20'-0"	20'-0"	20'-0"	20'-0"	20'-0"	20'-0"	20'-0"
Walking Beam, A.P.I. Rating	15,200 lb	19,000 lb	19,000 lb	25,000 lb	19,000 lb	19,000 lb	25,000 lb	19,700 lb
Walking Beam, Parkersburg Rating	18,400 lb	22,800 lb	22,800 lb	30,000 lb	22,800 lb	22,800 lb	30,000 lb	23,500 lb
Hanger Bearing, Type and Size	Horsehead	Horsehead	Rein 4 1/2"x9"	Horsehead	Rein 4 1/2"x9"	Horsehead	Horsehead	Horsehead
Wrist Pin, Diameter at Crank	Roller Brg. 3 1/2"	Roller Brg. 3 1/2"	Roller Brg. 3 1/2"	Roller Brg. 3 1/2"	Roller Brg. 3 1/2"	Roller Brg. 3 1/2"	Roller Brg. 3 1/2"	Roller Brg. 3 1/2"
Saddle Bearing, Self-Oiling, Size	6"x10"	9 1/2"x10 1/2"	9 1/2"x10 1/2"	9 1/2"x10 1/2"	9 1/2"x10 1/2"	9 1/2"x10 1/2"	9 1/2"x10 1/2"	5 1/2"x14 1/2"
Saddle Bearing, Projected Area	60 Sq. In.	99 1/2" Sq. In.	99 1/2" Sq. In.	99 1/2" Sq. In.	99 1/2" Sq. In.	99 1/2" Sq. In.	99 1/2" Sq. In.	79 1/2" Sq. In.
Tailboard Bearing, Size	5 1/2"x6 1/2"	4 1/2"x8 1/2"	4 1/2"x8 1/2"	4 1/2"x8 1/2"	7 1/2"x5 1/2"	7 1/2"x5 1/2"	7 1/2"x5 1/2"	4 1/2"x8 1/2"
Tailboard Bearing, Projected Area	37 1/2" Sq. In.	37 1/2" Sq. In.	37 1/2" Sq. In.	37 1/2" Sq. In.	43 1/2" Sq. In.	43 1/2" Sq. In.	43 1/2" Sq. In.	37 1/2" Sq. In.
Samson Post, Height to C.L. of Saddle Bearing	11'-7 1/2"	13'-7"	13'-7"	13'-7"	13'-7"	13'-7"	13'-7"	13'-0"
Height, Foundation to Top of Walking Beam	13'-9 1/2"	16'-0"	16'-0"	16'-0"	16'-0"	16'-0"	16'-0"	14'-1 1/2"
Height, Foundation to C.L. Reducer Crankshaft	60"	44 1/2"	44 1/2"	44 1/2"	68"	68"	68"	44 1/2"
Steel Base Section, Size and Weight	12" - 25 lb C.B. x16'-6 1/4" Long	12" - 25 lb C.B. x24'-7" Long	12" - 25 lb C.B. x18'-6" Long	12" - 25 lb C.B. x24'-7" Long	12" - 25 lb C.B. x24'-7" Long	12" - 25 lb C.B. x24'-7" Long	12" - 25 lb C.B. x24'-7" Long	12" - 27 lb C.B. x18'-3" Long
Width Base	38"	38"	38"	38"	38"	38"	38"	38"
Base Clearance with Well Center	7 1/2"	7 1/2"	7 1/2"	7 1/2"	7 1/2"	7 1/2"	7 1/2"	6"
Weight, with Reducer	11,590 lb	16,115 lb	14,750 lb	16,465 lb	16,350 lb	16,115 lb	16,463 lb	.....
Counterbalance:								
Maximum Effective Beam Counterbalance	4,019 lb	2,370 lb	2,370 lb	9,428 lb	2,370 lb	2,370 lb	9,428 lb	9,240 lb
Maximum Effective Crank Counterbalance	8,310 lb	9,510 lb	9,510 lb	9,510 lb	9,510 lb	9,510 lb	9,510 lb	11,294 lb

OCS PUMPERS—SPECIFICATIONS

	44C76DK12 1/2 A4 (15D2 A Polly) Double Reduction	44C76DK17A4 (15D2 A-1 Polly) Double Reduction	44C114DK17A7 (22 1/2 D3 Polly) Double Reduction	44C114DK17A4 (22 1/2 D2 Polly) Double Reduction	44C114DK17B7 (22 1/2 D6 Duck) Double Reduction
Pumper Reducer Specifications	C76DK	C76DK	C114DK	C114DK	C114DK
Sheave Data:					
Standard Pitch Diameter and No. of Grooves	26" 3C	26" 3C	24" 4C	24" 4C	24" 4C
Maximum Pitch Diameter	52"	52"	52"	52"	52"
Maximum No. of Grooves with Belt Cover	4C	4C	5C	5C	5C
Maximum No. of Grooves without Belt Cover	5C	5C	6C	6C	6C
Pumper Structure Specifications:					
Polish Rod Stroke, Standard	24", 34", 44"	24", 34", 44"	24", 34", 44"	24", 34", 44"	24", 34", 44"
Crank Part No. used to Obtain Std. Stroke	37149-C	37174-B	371312	371312	371312
Polish Rod Stroke, Maximum	44"	54"	54"	54"	54"
Crank Part No. used to Obtain Max. Stroke	37149-C	37958	37958A	37958A	37958A
Walking Beam, Size and Weight	14"x10" - 61 lb	18"x8 1/2" - 70 lb	16"x8 1/2" - 71 lb	18"x8 1/2" - 85 lb	16"x8 1/2" - 71 lb
Walking Beam, Working Centers	11' 11"	14' 0"	12' 4"	16' 0"	12' 4"
Walking Beam, O. C. S. Rating	12,500 lb	17,000 lb	17,000 lb	17,000 lb	17,000 lb
Walking Beam, A.P.I. Rating	12,805 lb	14,285 lb	15,080 lb	14,500 lb	15,080 lb
Hanger Bearing, Self-Oiling, Size	3 1/2"x6"	4"x6 1/2"	Horsehead	4"x6 1/2"	Horsehead
Wrist Pin, Diameter at Crank	2 1/2"	2.929"	2.929"	2.929"	2.929"
Saddle Bearing, Self-Oiling, Size	5"x9"	5"x11 1/2"	6"x10"	5"x11 1/2"	6"x10"
Saddle Bearing, Self-Oiling, Projected Area	45 Sq. In.	57 1/2" Sq. In.	60 Sq. In.	57 1/2" Sq. In.	60 Sq. In.
Tailboard Bearing, Size	3 1/2"x6"	4"x6 1/2"	4"x6 1/2"	4"x6 1/2"	4"x6 1/2"
Tailboard Bearing, Projected Area	21 Sq. In.	27 Sq. In.	27 Sq. In.	27 Sq. In.	27 Sq. In.
Samson Post, Height C. L. Bearing	10' 0"	10' 0"	9' 1"	12' 2"	10' 7"
Samson Post, 4 Legs, Size of Legs	1 1/2"x4"x4"	1 1/2"x4"x4"	1 1/2"x5"x5"	1 1/2"x5"x5"	1 1/2"x5"x5"
Steel Base, Std. Section, Size and Weight	8"x5 1/4" - 17 lb	8"x5 1/4" - 17 lb	10"x5 1/4" - 23 lb	10"x5 1/4" - 23 lb	10"x5 1/4" - 23 lb
Overall Length from Center of Well	22' 3"***	24' 2 1/2"***	23' 1"***	26' 6 1/4"***	23' 4"***
Polish Rod Clamp	2 Bolt	2 Bolt	2 Bolt	2 Bolt	2 Bolt
Weight with Reducer	7,500 lb	8,800 lb	9,400 lb	10,200 lb	11,250 lb
Counterbalance Specifications:					
Cranktype Counterbalance, Size	2-6"	2-8" Special	2-8" Special	2-8" Special	2-8" Special
Cranktype Counterbalance, Light, Wt., Each	750 lb	1,200 lb	1,200 lb	1,200 lb	1,200 lb
Cranktype Counterbalance, Heavy, Wt., Each	1,025 lb	1,675 lb	1,675 lb	1,675 lb	1,675 lb
Scale Type Adjustable Balance, Weight	.....	.....	1,000 lb	.....	1,000 lb
Scale Type Adjustable Balance, Weight	.....	.....	3,500 lb	.....	3,500 lb
Scale Type Adjustable Balance, Weight	.....	.....	5,000 lb	.....	5,000 lb
Extra Weights for Beam	400 lb	400 lb	400 lb	400 lb	400 lb

** Depends on type of engine.

THE PARKERSBURG RIG & REEL CO., Parkersburg, West Virginia

PARKERSBURG PUMPERS

SPECIFICATIONS

	64-G228D-20-A4	64-G228D-20-B3 (Long Base)	64-G228D-20-B4 (Long Base)	66 HF	74-G277D-24-B5 (Long Base)	74-G259D-24-A8
	Double Reduction	Double Reduction	Double Reduction	Double Reduction	Double Reduction	Double Reduction
Drawing No.				18092-X (330-33)	18677-X (349-20)	(330-33)
Reducer	G228D	G228D	G228D	G259D	G277D	G259D
Sheave Data:						
Maximum Pitch Diameter	41 $\frac{1}{2}$ "	41 $\frac{1}{2}$ "	41 $\frac{1}{2}$ "	45 $\frac{1}{2}$ "	45 $\frac{1}{2}$ "	45 $\frac{1}{2}$ "
Maximum Number Grooves with Belt Cover	6D	6D	6D	5D	4D	5D
Maximum Number Grooves without Belt Cover	7D	7D	7D	6D	5D	6D
Pumper Structure Specifications:						
Polish Rod Strokes	44", 54", 64"	44", 54", 64"	44", 54", 64"	46", 66"	34", 44", 54", 64", 74"	34", 44", 54", 64", 74"
Walking Beam, Size and Weight	27"-114 lb C.B.	27"-114 lb C.B.	27"-114 lb C.B.	24"-74 lb	24"-120 lb	24"-120 lb
Walking Beam, Working Centers	20'-0"	20'-0"	20'-0"	11'-10" Well End	24'-0"	24'-0"
Walking Beam, A.P.I. Rating	19,700 lb	19,700 lb	19,700 lb	30,000 lb	24,400 lb	24,400 lb
Walking Beam, Parkersburg Rating	23,600 lb	23,600 lb	23,600 lb	36,000 lb	29,280 lb	29,280 lb
Hanger Bearing, Type and Size	Rein 5 $\frac{1}{2}$ "x11"	Horsehead	Rein 5 $\frac{1}{2}$ "x11"	Horsehead	Horsehead	Rein 4 $\frac{1}{2}$ "x11"
Wrist Pin, Diameter at Crank	Roller Brg. 3 $\frac{1}{2}$ "	Roller Brg. 3 $\frac{1}{2}$ "	Roller Brg. 3 $\frac{1}{2}$ "	Roller Brg. 3 $\frac{1}{2}$ "	Roller Brg. 3 $\frac{1}{2}$ "	Roller Brg. 3 $\frac{1}{2}$ "
Saddle Bearing, Self-Oiling, Size	5 $\frac{1}{2}$ "x14 $\frac{1}{2}$ "	5 $\frac{1}{2}$ "x14 $\frac{1}{2}$ "	5 $\frac{1}{2}$ "x14 $\frac{1}{2}$ "	5 $\frac{1}{2}$ "x12"	8"x13 $\frac{1}{2}$ "	8"x13 $\frac{1}{2}$ "
Saddle Bearing, Projected Area	79 $\frac{1}{2}$ Sq. In.	79 $\frac{1}{2}$ Sq. In.	79 $\frac{1}{2}$ Sq. In.	66 Sq. In.	110 Sq. In.	110 Sq. In.
Tailboard Bearing, Size	4 $\frac{1}{2}$ "x8 $\frac{1}{2}$ "	4 $\frac{1}{2}$ "x8 $\frac{1}{2}$ "	4 $\frac{1}{2}$ "x8 $\frac{1}{2}$ "	5 $\frac{1}{2}$ "x14"	Roller Bearings	5 $\frac{1}{2}$ "x14"
Tailboard Bearing, Projected Area	37 $\frac{1}{2}$ Sq. In.	37 $\frac{1}{2}$ Sq. In.	37 $\frac{1}{2}$ Sq. In.	77 Sq. In.		47 $\frac{1}{2}$ Sq. In.
Samson Post, Height to C.L. of Saddle Bearing	13'-0"	13'-0"	13'-0"	13'-0 $\frac{1}{2}$ "	15'-7"	15'-7"
Height, Foundation to Top of Walking Beam	14'-11 $\frac{1}{2}$ "	14'-11 $\frac{1}{2}$ "	14'-11 $\frac{1}{2}$ "	15'-5"	18'-0"	18'-0"
Height, Foundation to C.L. Reducer Crankshaft	44 $\frac{1}{2}$ "	66"	66"	34"	80 $\frac{1}{2}$ "	49 $\frac{1}{2}$ "
Steel Base Section, Size and Weight	12"-27 lb C.B.	12"-27 lb C.B.	12"-27 lb C.B.	12"-25 lb C.B.	16"-36 lb C.B.	16"-36 lb C.B.
	x18'-3" Long	x24'-7" Long	x24'-7" Long	x15'-0" Long	x30'-0" Long	x21'-6" Long
Width Base	38"	38"	38"	32 $\frac{1}{2}$ "	38"	38"
Base Clearance with Well Center	6'-4"	6'-4"	6'-4"	30"	83 $\frac{1}{2}$ "	91 $\frac{1}{2}$ "
Weight, with Reducer				20,968 lb	20,646 lb	19,773 lb
Counterbalance:						
Maximum Effective Beam Counterbalance	9,240 lb	9,240 lb	9,240 lb	17,500 lb	10,465 lb	10,465 lb
Maximum Effective Crank Counterbalance	11,294 lb	8,430 lb	8,430 lb	None	12,590 lb	10,590 lb

OCS PUMPERS—SPECIFICATIONS

	54C160DK20A2 (32 $\frac{1}{2}$ D1 Polly) Double Reduction	54C160DK20B7 (32 $\frac{1}{2}$ D6 Drake) Double Reduction	74C218DK25A2 (40D1A Polly) Double Reduction	74C320DK35A2 (65D1 Polly) Double Reduction
Pumper Reducer Specifications:				
Sheave Data:				
Standard Pitch Diameter and No. of Grooves	24" 6C	24" 6C	38" 6D	49 $\frac{1}{2}$ " 7D
Maximum Pitch Diameter	52"	52"	60"	72"
Maximum No. of Grooves with Belt Cover	6C	6C	6D	9D
Maximum No. of Grooves without Belt Cover	7C	7C	7D	10D
Pumper Structure Specifications:				
Polish Rod Stroke, Standard	24", 34", 44", 54"	24", 34", 44", 54"	24", 34", 44", 54", 64", 74"	34", 44", 54", 64", 74"
Crank Part No. used to Obtain Std. Stroke	37374B	37374B	95204B	9573M
Polish Rod Stroke, Maximum	64"	64"	74"	74"
Crank Part No. used to Obtain Max. Stroke	37806C	37806C	95204B	9573M
Walking Beam, Size and Weight	27"x10"-106 lb	21"x9"-82 lb	27"x14"-145 lb	33"x11 $\frac{1}{2}$ "-152 lb
Walking Beam, Working Centers	20' 0"	14' 0"	25' 0"	25' 0"
Walking Beam, O.C.S. Rating	20,000 lb	20,000 lb	25,000 lb	35,000 lb
Walking Beam, A.P.I. Rating	19,700 lb	18,820 lb	24,500 lb	28,500 lb
Hanger Bearing, Self-Oiling, Size	4 $\frac{1}{2}$ "x8 $\frac{1}{2}$ "	Horsehead	5"x9 $\frac{1}{2}$ "	5"x9 $\frac{1}{2}$ "
Wrist Pin, Diameter at Crank	3 $\frac{1}{2}$ "	3 $\frac{1}{2}$ "	4"	4"
Saddle Bearing, Self-Oiling, Size	5 $\frac{1}{2}$ "x14 $\frac{1}{2}$ "	5 $\frac{1}{2}$ "x14 $\frac{1}{2}$ "	6"x14 $\frac{1}{2}$ "	7"x17"
Saddle Bearing, Self-Oiling, Projected Area	79 $\frac{1}{2}$ Sq. In.	87 Sq. In.	87 Sq. In.	119 Sq. In.
Tailboard Bearing, Size	4 $\frac{1}{2}$ "x8 $\frac{1}{2}$ "	4 $\frac{1}{2}$ "x8 $\frac{1}{2}$ "	5"x9 $\frac{1}{2}$ "	5"x9 $\frac{1}{2}$ "
Tailboard Bearing, Projected Area	37 $\frac{1}{2}$ Sq. In.	37 $\frac{1}{2}$ Sq. In.	47 $\frac{1}{2}$ Sq. In.	47 $\frac{1}{2}$ Sq. In.
Samson Post, Height to C. L. Bearing	15' 0"	11' 6"	17' 6"	18' 4 $\frac{1}{2}$ "
Samson Post, 4 Legs, Size of Legs	1 $\frac{1}{2}$ "x6"x6"	1 $\frac{1}{2}$ "x6"x6"	1 $\frac{1}{2}$ "x8"x8"	1 $\frac{1}{2}$ "x8"x8"
Steel Base, Std. Section, Size and Weight	14"x6 $\frac{1}{2}$ "-30 lb	10"x5 $\frac{1}{2}$ "-23 lb	14"x6 $\frac{1}{2}$ "-30 lb	14"x10"-61 lb
Overall Length from Center of Well	**	**	38"x10" **	**
Polish Rod Clamp	3 Bolt	3 Bolt	4 Bolt	6 Bolt
Weight with Reducer	17,500 lb	16,500 lb	28,000 lb	38,300 lb
Counterbalance Specifications:				
Cranktype Counterbalance, Size	2-7"	2-7"	2-8"	2-8"
Cranktype Counterbalance, Light, Wt., Each	1,400 lb	1,400 lb	1,900 lb	1,900 lb
Cranktype Counterbalance, Heavy, Wt., Each	1,900 lb	1,900 lb	2,500 lb	2,500 lb
Scale Type Adjustable Balance, Weight				
Scale Type Adjustable Balance, Weight		3,500 lb		
Scale Type Adjustable Balance, Weight		5,000 lb		
Extra Weights for Beam				

* Narrow spacing.

** Depends on type of engine.

THE PARKERSBURG RIG & REEL CO., Parkersburg, West Virginia

PARKERSBURG PUMPER SPECIFICATIONS

	74-G277D-24-B7	74-G220D-24-A8	74-G220D-24-B8	74-G277D-24-A8 (Long Base) Double Reduction	74 SH Double Reduction	120-G259D-30- 10 (10HF) Double Reduction	120-G492D-30- N10 Double Reduction	132-G456D-30- 10 (11AK) Double Reduction
Drawing No.	(J49-20) G277D	(J40-20) G220D	(J40-20) G220D	18202-M (J49-20) G277D	11795-X (J40-20) G220D	11623-X (J30-33) G259D	P-18719-X G492D	11750-IX G456D
Reducer								
Sheave Data:								
Maximum Pitch Diameter	45 1/2"	41 1/2"	41 1/2"	45 1/2"	41 1/2"	45 1/2"	59 1/2"	59 1/2"
Maximum Number Grooves with Belt Cover	4D	6D	6D	4D	6D	5D	4D	4D
Maximum Number Grooves without Belt Cover	5D	7D	7D	5D	7D	6D	5D	5D
Pumper Structure Specifications:								
Polish Rod Strokes	34", 44", 54" 64", 74"	34", 44", 54" 64", 74"	34", 44", 54" 64", 74"	34", 44", 54" 64", 74"	44", 54", 64", 74"	66", 84", 102", 120"	72", 96", 120"	60", 84", 108", 132"
Walking Beam, Size and Weight	24"—120 lb	24"—120 lb	24"—120 lb	24"—120 lb	24"—100 lb	24"—100 lb	24"—100 lb	24"—100 lb
Walking Beam, Working Centers	25'-0"	25'-0"	25'-0"	25'-0"	20'-0"	12'-0" Well End	16' 4" Well End	13'-7" Well End
Walking Beam, A.P.I. Rating	24,400 lb	24,400 lb	24,400 lb	24,400 lb	19,000 lb	30,000 lb	30,000 lb	30,000 lb
Walking Beam, Parkersburg Rating	29,280 lb	29,280 lb	29,280 lb	29,280 lb	22,800 lb	26,000 lb	36,000 lb	36,000 lb
Hanger Bearing, Type and Size	Horsehead	Rein 4 1/2"x9"	Rein 4 1/2"x9"	*Rein 4 1/2"x9"	Horsehead	Rod 6"x8 1/2"	Rod 6"x8 1/2"	Rod 6"x8 1/2"
Wrist Pin, Diameter at Crank	Roller Brg. 3 1/2"	Roller Brg. 3 1/2"	Roller Brg. 3 1/2"	Roller Brg. 3 1/2"	Roller Brg. 3 1/2"	Roller Brg. 2 3/4"	Roller Brg. 3 3/4"	Roller Brg. 3 3/4"
Saddle Bearing, Self-Oiling, Size	8"x13 1/2"	8"x13 1/2"	8"x13 1/2"	8"x13 1/2"	7 1/2"x12 1/2"	8 1/2"x14"	5 1/2"x12"	8"x13 1/2"
Saddle Bearing, Projected Area	110 Sq. In.	110 Sq. In.	110 Sq. In.	110 Sq. In.	91 1/2 Sq. In.	115 Sq. In.	66 Sq. In.	110 Sq. In.
Tailboard Bearing, Size	5 1/2"x29 1/2"	5 1/2"x29 1/2"	5 1/2"x29 1/2"	5 1/2"x29 1/2"	7 1/2"x12 1/2"	5 1/2"x15"	6"x20"	6"x20"
Tailboard Bearing, Projected Area	47 1/2 Sq. In.	47 1/2 Sq. In.	47 1/2 Sq. In.	47 1/2 Sq. In.	91 1/2 Sq. In.	82 1/2 Sq. In.	120 Sq. In.	120 Sq. In.
Samson Post, Height to C.L. of Saddle Bearing	15'-7"	15'-7"	15'-7"	15'-7"	12'-6"	10'-10"	14'-6"	12'-2"
Height, Foundation to Top of Walking Beam	18'-0"	18'-0"	18'-0"	18'-0"	14'-10 1/2"	13'-2"	16'-11"	14'-7"
Height, Foundation to C.L. Reducer Crankshaft	80 1/2"	48 1/2"	49 1/2"	49 1/2"	44 1/2"	31"	37"	39"
Steel Base Section, Size and Weight	16"—36 lb C.B. x30'-0" Long	16"—36 lb C.B. x23'-7 1/2" Long	16"—36 lb C.B. x30'-0" Long	16"—36 lb C.B. x30'-0" Long	12"—25 lb C.B. x25'-0" Long	14"—34 lb C.B. x13'-6" Long	14"—43 lb C.B. x18'-6" Long	16"—58 lb C.B. x16'-4 1/2" Long
Width Base	38"	38"	38"	38"	77 1/2"	30"	33 1/2"	33 1/2"
Base Clearance with Well Center	93 1/2"	91 1/2"	91 1/2"	91 1/2"	70 1/2"	37 1/2"	41"	36"
Weight, with Reducer	20,645 lb	19,300 lb		21,145 lb		20,415 lb	30,811 lb	29,069 lb
Counterbalance:								
Maximum Effective Beam Counterbalance	10,465 lb	10,465 lb	10,465 lb	10,465 lb	13,600 lb	12,800 lb	16,600 lb	16,600 lb
Maximum Effective Crank Counterbalance	12,590 lb	12,590 lb	12,590 lb	12,590 lb	7,910 lb	None	None	None

* Can be furnished with Horsehead.

OCS BAT PUMPER REDUCERS—SINGLE REDUCTION

The OCS Single Reduction Pumper Reducers are designed particularly for oil well application and will provide proper well speeds when 200 to 700 r.p.m. prime movers are used with the proper primary drive. The slow speed shaft is extended at each end to provide single or twin crank use and the high speed shaft is likewise extended for right or left hand drive as well as to provide a place for a spacing brake. Both shafts are mounted on Tapered Roller Bearings in self-aligning housings. The bearing bowls in the primary shaft are eccentric so proper chain adjustment may be maintained for maximum efficiency. The electrically welded steel case provides the supports for the machinery as well as the inclosure for lubrication. Lubrication and rolling contacts of roller chain and roller bearings make this a most efficient, simple and rugged machine.

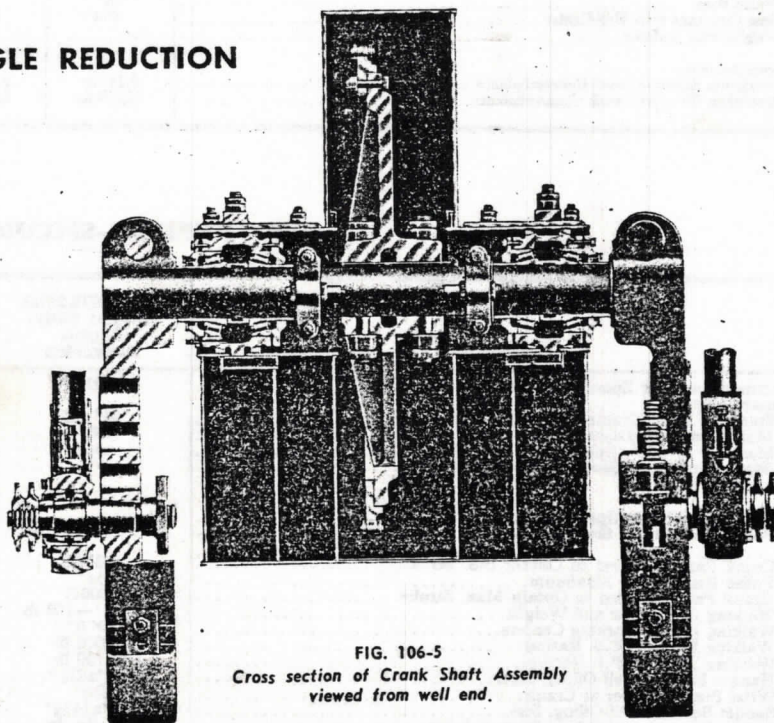


FIG. 106-5
Cross section of Crank Shaft Assembly
viewed from well end.

BAT PUMPER REDUCERS—SINGLE REDUCTION SPECIFICATIONS

	C70SK (10S Bat)	C80SK (15S Bat)	C114SK (22 1/2S Bat)	C160SK (32 1/2S Bat)	C198SK (40S Bat)	C228SK (50S Bat)	C456.00SK (75S Bat)
Peak Torque, inch lbs.	70,000	80,000	114,000	160,000	198,000	228,000	456,000
A.P.I. H.P. @ 20 R.P.M.	11.5	15.4	23	32 1/2	40	46	75
Ratio in Reducer	7.46:1	6:1	6:1	6.3:1	6.44:1	6.65:1	6:1
Sheave Dia. & No. of Grooves, Std.	44" 3C	42" 3D	42" 4D	52" 5D	49" 6D	56" 7D	172" 8D
Sprockets, No. of Teeth	13-97	13-78	13-78	13-82	16-103	17-113	15-90
Chain Size	1 1/4" Triple	1 1/2" Double	1 1/2" Triple	1 1/2" Triple	2" P. Double	2 1/2" Single	2 1/2" Double
Crankshaft, Bearings, Dia.	3 3/8"	4 1/8"	5"	5 1/2"	6"	7"	7"
Countershaft, Bearings, Dia.	2 1/2"	3 1/8"	3 1/2"	4"	4 1/2"	4 1/2"	4 1/2"
Dia. Countershaft Extension, inches	2.500	3.250	3.250	4.000	4.500	4.500	4.500
Keyway Countershaft Shaft	3/8"x 1 1/2"	3/4"x 3/8"	3/4"x 3/8"	1"x 1 1/2"	1"x 3/4"	1"x 3/4"	1"x 3/4"
Case Size, Overall	26"x70"	29 1/2"x72"	29 1/2"x72"	33 1/2"x81 1/2"	46 1/2"x100 1/2"	53 1/2"x125 1/2"	53 1/2"x125 1/2"
Foundation Bolts, No. and Size	10-1 1/2"	8-1 1/2"	8-1 1/2"	4-1 1/2", 4-1 1/2"	10-1 1/2"	10-1 1/2"	6-1 1/2", 4-2"
Weight, lbs.	2,100	2,800	3,300	4,200	6,500	9,400	10,000

† Narrow Spacing.
Note—All chains are Extra Heavy.

THE PARKERSBURG RIG & REEL CO., Parkersburg, West Virginia

O C S POLLY PUMPER REDUCERS—DOUBLE REDUCTION

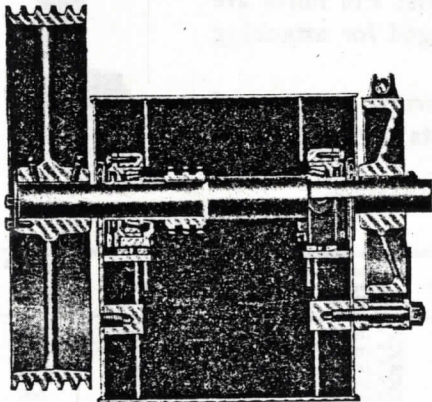


FIG. 107-1
Cross Section of High Speed Shaft Assembly.

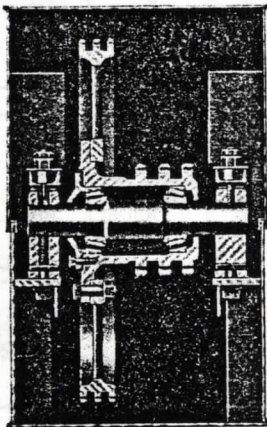


FIG. 107-2
Cross Section of Intermediate Shaft Assembly.

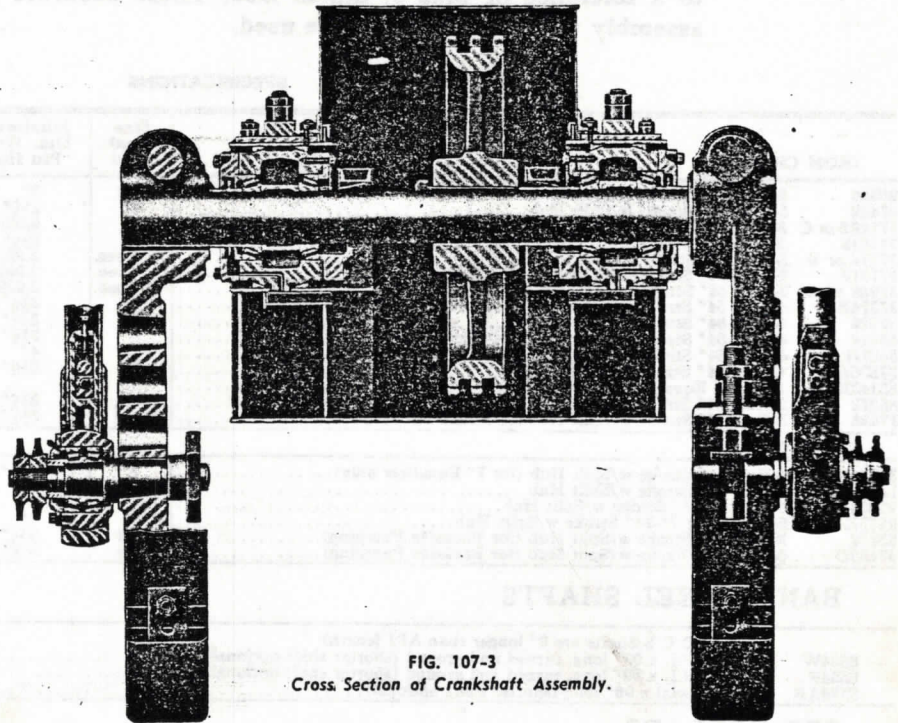


FIG. 107-3
Cross Section of Crankshaft Assembly.

The O C S Double Reduction Reducers are designed particularly for oil well application and will provide proper well speeds when 500 to 1800 R.P.M. prime movers are used with the proper primary drive. They are mechanical speed reducers incorporating Diamond Roller Chain and Tapered Roller Bearings. These most accurate and efficient specialties are enclosed in an electrically welded steel case and run in an oil bath. The sprockets are accurately machined

and the shafts are turned and ground. The primary and intermediate shafts are adjustable to maintain smooth chain operation and maximum efficiency. The slow speed shaft is arranged so that single or twin cranks may be applied. The primary shaft is extended on each side so that either a right or left hand drive may be provided and the opposite end used for a spacing brake, if specified. These units are also adaptable as central pumping powers for operating pendulum swings or push and pull powers. Lubrication and rolling contacts of roller chain and roller bearings make this a most efficient, simple and rugged machine.

POLLY PUMPER REDUCERS—DOUBLE REDUCTION

SPECIFICATIONS

	C57DK (10D Polly)	C76DK (15D Polly)	C114DK (22½D Polly)	C160DK (32½D Polly)	C218DK (40D Polly)	C320DK (65D Polly)
Peak Torque, inch lbs.	57,000	76,300	114,000	160,000	218,000	320,000
A.P.I. H.P. @ 20 R.P.M.	11.5	15.4	23	32½	43	64½
Ratio in Reducer	19.86:1	22.24:1	23.75:1	25.3:1	19.1:1	21.7:1
Sheave Dia. & No. of Grooves, Standard	30.5" 2C	26" 3C	24" 4C	24" 6C	38" 5D	49½" 7D
Primary Shaft Extension, Dia.	1.875	2.000	2.500	2.937	3.50	4.000
Keyway, Primary Shaft	¾" x ¾"	¾" x ¾"	¾" x ¾"	¾" x ¾"	¾" x ¾"	1" x 1"
Sprockets, Crankshaft Drive	17-57	16-64	17-68	17-68	16-55	16-61
Sprockets, Primary Drive	15-89	13-89	14-95	15-95	16-89	16-91
Chain Size, Crankshaft Drive	1½" Triple	1½" Double	1½" Triple	1½" Triple	2" Triple	2½" Double
Chain Size, Primary Drive	¾" Triple	1" Double	1" Triple	1" Quad	1½" Triple	1½" Triple
Crankshaft, Bearing, Dia.	3¾"	4½"	5"	5½"	6"	7"
Intermediate Shaft, Bearing, Dia.	2"	2½"	2½"	3"	3½"	4"
Primary Shaft, Bearing, Dia.	1½"	1¾"	2½"	3"	3½"	4"
Case Size, Overall	26" x 61½"	27¾" x 76¾"	32" x 80¾"	38½" x 92"	43½" x 92"	61¾" x 122½"
Foundation Bolts, No. and Size	10—1½"	10—1½"	10—1½"	10—1½"	10—1½"	10—2"
Weight, lbs.	1,800	2,200	3,500	5,250	6,200	12,500

* Heavy Chain; all other chain Extra Heavy.

THE PARKERSBURG RIG & REEL CO., Parkersburg, West Virginia

O C S BALANCE CRANKS AND BANDWHEEL SHAFTS

OCS Balance Cranks are made in different sizes and of iron or steel with solid or split hub for various sizes of shafts. The Wrist Pin holes are tapered for tapered wrist pins and the cranks are all arranged for attaching the OCS Crank Type Equalizer.

OCS Bandwheel Shafts are made of SAE 1045 steel, turned and ground to a tolerance of plus 0, minus .003. These accurate shafts speed up field assembly where bandwheels are used.



FIG. 179
O C S Split Hub
Crank.

SPECIFICATIONS

IRON CRANKS		Size Equal. Used	Maximum Dia. Wrist Pin Hole	Taper Wrist Pin Hole	Stock Bore	Maximum Bore	Weight Lbs. Each
96326	2-Hole 34" Stroke w/Split Hub	None	2"	3/4" in 12"	3"	3 1/4"	330
37432	3-Hole 34" Stroke w/Split Hub	6"	2 1/2"	3/4" in 12"	3 1/2"-4 1/4"	4 1/2"	280
37149B or C	3-Hole 44" Stroke w/Split Hub	6"	2.929"	3/4" in 12"	3 1/2"-4 1/4"	4 1/2"	350
371618	3-Hole 54" Stroke w/Split Hub	6"	2 1/2"	3/4" in 12"	4 1/2"	4 1/2"	400
37174 or B	3-Hole 44" Stroke w/Split Hub	8" Spec.	2.929"	3/4" in 12"	5"	5 1/2"	560
371312	3-Hole 44" Stroke w/Split Hub	8" Spec.	2.929"	3/4" in 12"	4 1/2"-5"	5 1/2"	610
37958 or A	3-Hole 54" Stroke w/Split Hub	8" Spec.	2.929"	3/4" in 12"	5 1/2"-6"	6 1/2"	660
37374B	4-Hole 54" Stroke w/Split Hub	7"	3 1/2"	3/4" in 12"	6"	6 1/2"	680
37222	4-Hole 54" Stroke w/Split Hub	8"	3 1/2"	3/4" in 12"	6"	6 1/2"	720
85244	4-Hole 54" Stroke w/Split Hub (for Portable Front)	8"	3 1/2"	3/4" in 12"	6"-6 1/4"	7"	900
8527H	4-Hole 54" Stroke w/Split Hub	8"	4"	3/4" in 12"	6"	6 1/2"	935
37806A or C	4-Hole 64" Stroke w/Split Hub	7"	3 1/2"	3/4" in 12"	6"	6 1/2"	840
85143D	Backside Equalizer Crank	8"	3 1/2"	3/4" in 12"	6"	6 1/2"	890
85273	2-Hole 34" Stroke w/Split Hub for Backside	None	3 1/2"	3/4" in 12"	5 1/2"	6 1/2"	420
37438	3-Hole 44" Stroke w/Split Hub for Backside	None	3 1/2"	3/4" in 12"	5 1/2"-6"	6 1/2"	480

STEEL CRANKS

37374A	4-Hole 54" Stroke w/Split Hub (for 7" Equalizer only)	7"	3 1/2"	3/4" in 12"	5 1/2"-6"	6 1/2"	605
L-151	4-Hole 54" Stroke w/Split Hub	8"	4"	3/4" in 12"	5"-6"-6 1/2"	6 1/2"	670
95204B or L	6-Hole 6"-74" Stroke w/Split Hub	8"	4"	3/4" in 12"	6"	7"	900
9573K or M	6-Hole 6" or 7"-74" Stroke w/Split Hub	8"	4"	3/4" in 12"	6"-6 1/2"-7"	7"	1200
85272	3-Hole 42" Stroke w/Split Hub (for Backside Pumping)	None	3 1/2"	3/4" in 12"	5"-5 1/2"-6"-7"	6"	435
37438D	3-Hole 44" Stroke w/Split Hub (for Backside Pumping)	None	3 1/2"	3/4" in 12"	6"	6 1/2"	465

BANDWHEEL SHAFTS

BANDWHEEL SHAFTS		Weight, Lbs., Each
(O C S Shafts are 2" longer than API length)		
8524W	6" A.P.I. x 93" long, turned and ground (shorter shaft optional)	740
8524F	6" A.P.I. x 99" long, turned and ground (shorter shaft optional)	790
8524AB	7" Special x 96" long (shorter shaft optional)	1,040

SET COLLARS

8552	6" A.P.I. Plain	25
8598	6" A.P.I. Split	40
85282	7" Split	50

WRIST PINS & PULLERS

OCS Wrist Pins are tapered to assure a tight fit in every OCS crank. They are made to accommodate standard A.P.I. pitman bearing sizes or are made special for roller bearings. Special OCS Wrist Pins have a thread on each end so the wrist pin nut may be removed and used in connection with a wrist pin puller to quickly pull the pin. This convenient puller eliminates hours of sledging to change wrist pin holes.

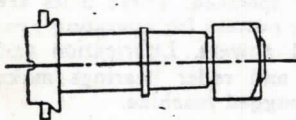
SPECIFICATIONS

WRIST PINS

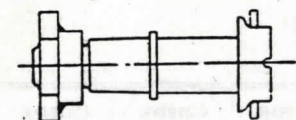
- 8541T Regular 4" Tapered, w/Nut and Washer.
- 8541F California Type 6" Flange 4" Tapered w/Wing Nut and Washer.
- 8541G 3 1/2" Tapered w/Nut and Washer for Backside Crank.
- 95180D Puller Type 4" Tapered w/Wing Nut and Collar Nuts.
- 95231A Puller Type 3 1/2" Tapered w/Wing Nut and Collar Nuts.
- 5570A, 4" Tapered Roller Bearing Wrist Pin Complete w/Bearing and Self-aligning Bowl.

WRIST PIN PULLERS

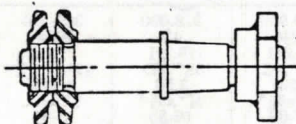
- 95185 for 95180D Wrist Pin.
- 95326 for 95231A Wrist Pin.
- 5569 for 5570A Timken Bearing Wrist Pin.



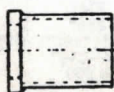
8541T
8541G



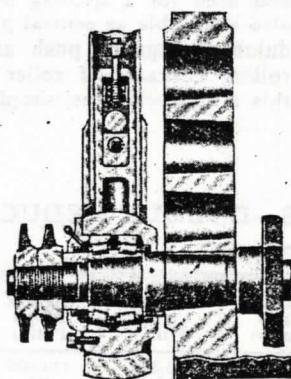
8541F



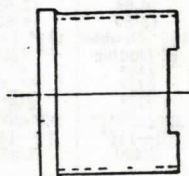
95180D
95231A



95185



5570A



5569

THE PARKERSBURG RIG & REEL CO., Parkersburg, West Virginia

O C S WALKING BEAMS, SAMSON POSTS, HANGERS AND PITMANS



FIG. 198
Straight Lift Type
Walking Beam
with Adjustable Saddle.

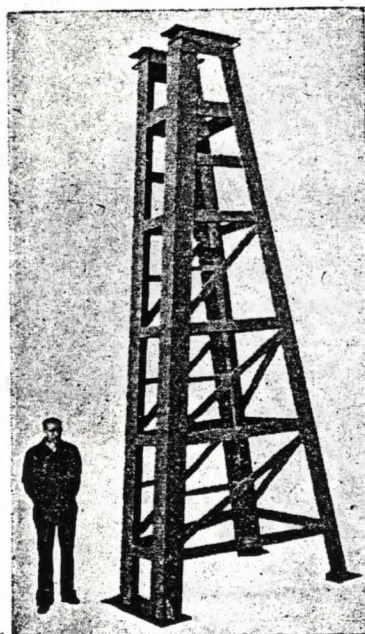


FIG. 254
17' 2" Straight Lift Type
Samson Post.

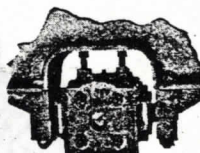


FIG. 286
Self-Oiling and
Self-Aligning
Tailboard Bearing.

OCS Samson Posts, electrically welded in compression, are provided with leveling screw tops designed for adjustable saddles and ladders built in.

The longer beams are straight lift type with center trunnions supporting the upper and lower flanges separate from the web by special wedge design. All bearings are weather-proof, enclosed lubrication and adjustable with self-aligning tailboard and hanger bearings.

All pitmans are provided with Tapered Roller Wrist Pin Bearings and are self-aligning.



FIG. 296
Self-Oiling and
Self-Aligning
Hangers.



FIG. 289
The above shows the OCS
single pitman (2 channel
box sections) with Tapered
Roller Bearing Wrist Pin,
Stirrup and Wrist Pin
Puller.

O C S TWIN BRAKE SAND REELS SPECIFICATIONS

	Greyhound	Pup
Length Overall.....	11'-6"	10'-6"
Width Overall.....	50"	42"
Height.....	53"	44"
Diameter of Stationary Shaft.....	5 1/4"	5"
Diameter of Spool Shaft.....	13"	11"
Diameter of Flanges.....	44"	36"
Length of Spool Shaft between Flanges.....	29", 12 3/4", total 41 3/4"	22", 12 3/4", total 34 3/4"
Two Brake Drums.....	40" diameter, 8" wide	34" diameter, 6" wide
Driven Sprocket.....	29 Tooth 2" pitch	23 Tooth 2" pitch
Clutch Air-Cooled Disc Type.....	28"	23"
Clutch Capacity.....	100 HP per 100 RPM	50 HP per 100 RPM
Shipping Weight.....	7,500 lb	4,500 lb

SPOOLING CAPACITY

Size Line, Inch	GREYHOUND		PUP	
	Working Side Feet	Storage Side Feet	Working Side Feet	Storage Side Feet
1 1/2"	10,500	4,500	5,200	3,000
2"	8,500	3,600	4,200	2,400
3"	6,000	2,500	3,000	1,800

UNIVERSAL RIG FRONTS—TYPE 95F FOR CABLE TOOL DRILLING SPECIFICATIONS Enclosed Portable Front

Beam.....	100 lb 23' Working Center
Samson Post.....	14 Foot A Frame
Saddle Bearing.....	Adjustable Self-Aligning
Pitman.....	Box Type w/Tapered Roller Bearing Wrist Pin
Base.....	61 lb 33 Feet 4" Long
Crank—OCS Balance Type.....	4-Hole 54" Stroke "Cast Steel"

See top of page for additional specifications.

Base made to accommodate to OCS Hoist and Sand Reel and w/Flange connection for attaching Engine Base.

UNIVERSAL RIG FRONT—TYPE 95-F FOR PUMPING SPECIFICATIONS

	95F 6'	95F 7'
Crankshaft, turned and ground.....	6"x87" long	7"x87" long
Crank, 6-hole Steel, Split Hub.....	74" Stroke	74" Stroke
Wrist Pin (Adaptable to Puller).....	4" tapered	4" tapered
Driven Sprocket, 2 1/2" pitch single.....	84-tooth	90-tooth
Tug Pulley, Double or Triple Groove.....	7" diameter	7" diameter
Jackpost Boxes, Self-aligning.....	Tapered Roller Bearing	Tapered Roller Bearing
Jackposts, steel enclosed.....	1 1/2" thick plate	1 1/2" thick plate
Chain, 2 1/2" pitch single.....	No. X340614 Diamond	Special Heavy Diamond
Countershaft, turned and ground.....	4 1/2"x92 1/4"	5 1/2"x93"
Drive Sprocket, 2 1/2" pitch single.....	15-tooth (17-tooth optional)	17-tooth std. (15-tooth optional)
Clutch Pulley.....	48"x15" face	58"x15" face
Clutch, OCS Disc.....	23"	28"
Countershaft Bearings.....	8-Roller	8-Roller
Reverse Drive, OCS patented.....	Friction Disc	Friction Disc
Neutral Brake.....	20" Clam Shell	24" Clam Shell

O C S HEAVY DUTY PRODUCTION HOIST

THREE HOISTS IN ONE Calfwheel—Sand Reel—Bull Wheel SPECIFICATIONS

Length Overall.....	11'
Width Overall.....	4'-6"
Height.....	5'-4"
Diameter of Stationary Shaft.....	6 1/2"
Diameter of Spool Shaft.....	20"
Length of Spool Shaft between Flanges.....	37"
Diameter of Flanges.....	54"
Two Brake Drums.....	48" dia. 8" wide
Large Sprocket.....	56 tooth 2 1/2" pitch
Small Sprocket.....	34 tooth 2 1/2" pitch
Friction Clutch.....	Band Type
Clutch Capacity.....	500 HP per 100 RPM
Shipping.....	11,000 lbs.
Spool Capacity Standard Hoist.....	For Steam Engine Drive
3/4" line 11,000'	3/4" line 10,000'
1/2" line 8,500'	1/2" line 7,500'
1" line 6,500'	1" line 6,000'

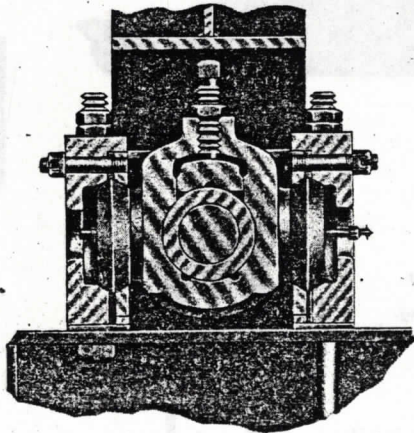
SADDLE, TAILBOARD AND HANGER BEARINGS


FIG. 106-3
Cross Section of Tailboard Bearing viewed
from walkside.

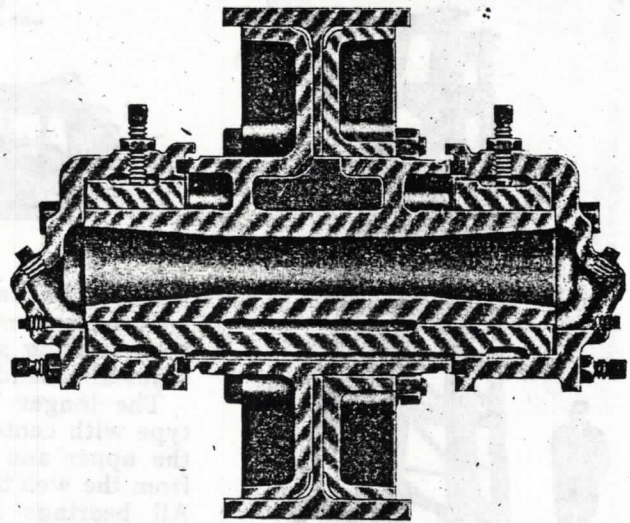


FIG. 106-6
Cross Section of Saddle Bearing Assembly.

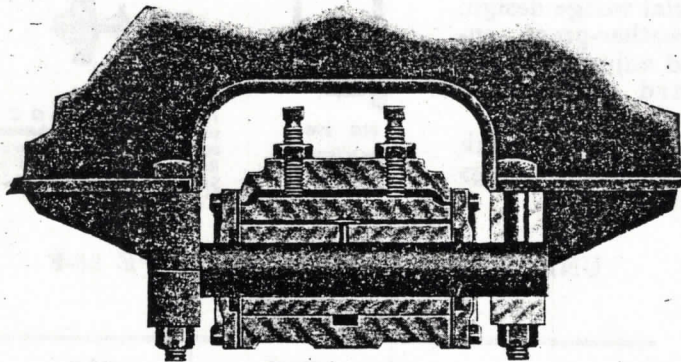


FIG. 106-1
Cross Section of Tailboard Bearing Assembly.

O C S CRANK TYPE COUNTERBALANCE

Figure 362 illustrates an O C S split hub 6-hole steel crank, designed to fit the O C S counterbalance. By using either the O C S split hub iron or steel crank, an O C S counterbalance can be used on any standard rig

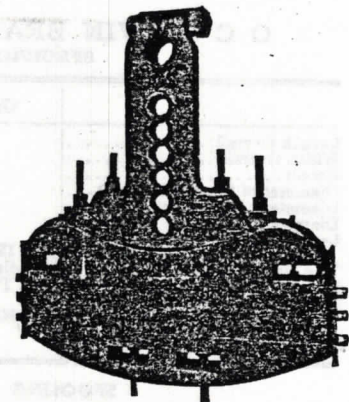
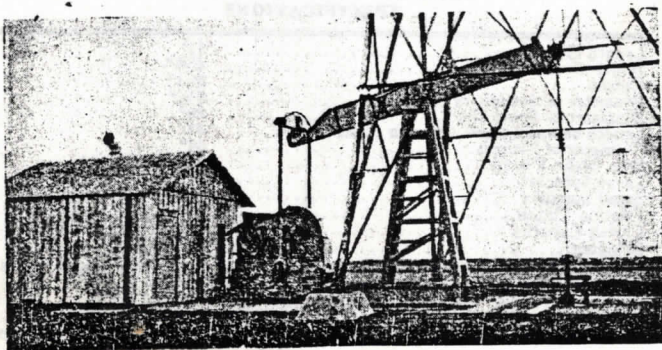


FIG. 362
O C S Crank with 8" Counterbalance.

or pumping unit crankshaft. O C S counterbalance has been used on more wells than any other centrifugal type balance. These illustrations show how O C S counterbalances can be applied. The balance can be put on or taken off in five minutes for well servicing.



THE PARKERSBURG RIG & REEL CO., Parkersburg, West Virginia

WEIGHT OF WELLS

POLISHED ROD LOAD IN POUNDS TO BE BALANCED FOR WELLS FROM 700 TO 5000 FEET DEEP

TABLE SHOWS HALF THE WEIGHT OF FLUID AND WEIGHT OF RODS

3/4" DIAMETER SUCKER RODS

Depth of Well in Feet	WORKING BARREL						Depth of Well in Feet	WORKING BARREL					
	1"	1-1/4"	1-1/2"	1-3/4"	2-1/4"	2-3/4"		1"	1-1/4"	1-1/2"	1-3/4"	2-1/4"	2-3/4"
	700	905	970	1055	1148	1386		1650	2900	3753	4019	4369	4756	5742	6832
800	1034	1109	1206	1312	1584	1885	3000	3882	4158	4521	4920	5940	7068
900	1163	1247	1356	1476	1782	2120	3100	4011	4297	4673	5084	6138	7304
1000	1294	1386	1507	1640	1980	2356	3200	4141	4435	4824	5248	6336	7539
1100	1423	1525	1658	1804	2178	2592	3300	4270	4574	4974	5412	6534	7775
1200	1553	1666	1808	1968	2376	2826	3400	4400	4712	5125	5576	6732	8010
1300	1682	1802	1959	2132	2574	3062	3500	4529	4851	5275	5740	6930	8246
1400	1811	1940	2109	2296	2772	3297	3600	4659	4989	5426	5904	7128	8481
1500	1941	2078	2260	2460	2970	3533	3700	4788	5128	5578	6068	7326	8717
1600	2070	2217	2410	2624	3168	3768	3800	4918	5266	5727	6232	7524	8952
1700	2200	2355	2561	2788	3366	4004	3900	5047	5405	5878	6396	7722	9188
1800	2329	2494	2711	2952	3524	4240	4000	5176	5544	6028	6560	7920	9438
1900	2459	2633	2862	3116	3762	4476	4100	5305	5683	6178	6724	8118	9660
2000	2588	2772	3014	3280	3960	4712	4200	5435	5821	6329	6888	8316	9895
2100	2717	2911	3165	3444	4158	4948	4300	5564	5960	6480	7052	8514	10131
2200	2847	3049	3315	3608	4356	5183	4400	5694	6098	6630	7216	8712	10366
2300	2976	3188	3466	3772	4554	5419	4500	5823	6237	6787	7380	8910	10602
2400	3106	3326	3616	3936	4752	5654	4600	5953	6375	6932	7544	9108	10837
2500	3235	3465	3767	4100	4950	5890	4700	6082	6514	7082	7708	9306	11073
2600	3365	3603	3917	4264	5148	6125	4800	6212	6652	7233	7872	9504	11308
2700	3494	3742	4068	4428	5346	6364	4900	6341	6791	7384	8036	9702	11544
2800	3624	3880	4218	4592	5544	6596	5000	6470	6930	7535	8200	9900	11780

3/4" DIAMETER SUCKER RODS

Depth of Well in Feet	WORKING BARREL						Depth of Well in Feet	WORKING BARREL					
	1"	1-1/4"	1-1/2"	1-3/4"	2-1/4"	2-3/4"		1"	1-1/4"	1-1/2"	1-3/4"	2-1/4"	2-3/4"
	700	1256	1420	1405	1498	1736		1929	2900	5203	5469	5820	6206	7192	7992
800	1435	1509	1606	1712	1984	2205	3000	5382	5658	6021	6420	7440	8268
900	1615	1697	1806	1926	2232	2480	3100	5561	5846	6221	6634	7688	8543
1000	1794	1886	2007	2140	2480	2756	3200	5741	6035	6422	6848	7936	8819
1100	1973	2074	2207	2354	2728	3031	3300	5920	6223	6622	7062	8184	9094
1200	2153	2263	2408	2568	2976	3307	3400	6100	6412	6823	7276	8432	9370
1300	2332	2451	2608	2782	3224	3582	3500	6279	6600	7023	7490	8680	9645
1400	2512	2640	2809	2996	3472	3858	3600	6458	6789	7224	7704	8928	9921
1500	2691	2828	3009	3210	3720	4133	3700	6638	6977	7424	7916	9176	10196
1600	2871	3017	3210	3424	3968	4409	3800	6817	7166	7626	8132	9424	10472
1700	3050	3205	3410	3638	4216	4684	3900	6997	7355	7827	8364	9672	10748
1800	3229	3399	3612	3852	4464	4960	4000	7176	7544	8028	8560	9920	11024
1900	3409	3583	3813	4064	4712	5236	4100	7355	7732	8228	8774	10168	11299
2000	3588	3772	4014	4280	4960	5512	4200	7535	7921	8429	8988	10416	11575
2100	3767	3960	4214	4494	5208	5787	4300	7714	8109	8629	9202	10664	11850
2200	3947	4149	4415	4708	5456	6063	4400	7894	8298	8830	9416	10912	12126
2300	4126	4337	4615	4922	5704	6338	4500	8073	8486	9030	9630	11180	12401
2400	4306	4526	4816	5136	5952	6614	4600	8258	8675	9231	9844	11408	12677
2500	4485	4714	5017	5350	6200	6889	4700	8432	8863	9432	10058	11656	12952
2600	4665	4903	5217	5564	6448	7165	4800	8611	9052	9633	10272	11904	13228
2700	4844	5091	5418	5778	6696	7440	4900	8791	9241	9834	10486	12152	13504
2800	5024	5280	5619	5992	6944	7716	5000	8970	9430	10035	10700	12400	13780

3/4" DIAMETER SUCKER RODS

Depth of Well in Feet	WORKING BARREL						Depth of Well in Feet	WORKING BARREL					
	1"	1-1/4"	1-1/2"	1-3/4"	2-1/4"	2-3/4"		1"	1-1/4"	1-1/2"	1-3/4"	2-1/4"	2-3/4"
	700	1743	1768	1854	1946	2184		2448	2900	7058	7325	7676	8062	9048	10138
800	1987	2021	2118	2224	2496	2797	3000	7302	7578	7941	8340	9360	10488
900	2190	2273	2383	2502	2808	3147	3100	7545	7830	8205	8618	9672	10837
1000	2434	2526	2647	2780	3120	3496	3200	7788	8083	8470	8896	9984	11187
1100	2677	2778	2911	3058	3432	3845	3300	8032	8335	8735	9174	10296	11537
1200	2921	3031	3176	3336	3744	4195	3400	8275	8588	8999	9432	10608	11886
1300	3164	3283	3440	3614	4056	4544	3500	8518	8840	9264	9730	10920	12236
1400	3408	3536	3705	3892	4368	4894	3600	8762	9093	9528	10008	11232	12585
1500	3651	3788	3970	4170	4680	5243	3700	9005	9345	9794	10286	11544	12935
1600	3895	4041	4234	4448	4992	5593	3800	9248	9598	10058	10564	11856	13284
1700	4138	4293	4499	4726	5304	5942	3900	9492	9851	10323	10842	12168	13634
1800	4382	4546	4764	5004	5616	6292	4000	9736	10104	10588	11120	12480	14038
1900	4625	4790	5029	5282	5928	6642	4100	9979	10356	10851	11398	12792	14333
2000	4868	5042	5294	5560	6240	6992	4200	10222	10609	11116	11676	13104	14683
2100	5111	5304	5558	5838	6552	7341	4300	10466	10861	11380	11954	13416	15032
2200	5354	5557	5823	6116	6864	7691	4400	10709	11114	11645	12232	13728	15382
2300	5598	5809	6088	6394	7176	8040	4500	10952	11366	11911	12510	14040	15731
2400	5841	6062	6352	6672	7488	8390	4600	11196	11619	12175	12785	14352	16081
2500	6085	6314	6617	6950	7800	8739	4700	11439	11871	12440	13066	14664	16430
2600	6328	6566	6882	7228	8112	9089	4800	11682	12124	12704	13344	14976	16780
2700	6571	6819	7146	7506	8424	9438	4900	11926	12377	12970	13622	15288	17130
2800	6814	7072	7411	7784	8736	9788	5000	12170	12630	13335	14000	15600	17480

1" DIAMETER SUCKER RODS

Depth of Well in Feet	WORKING BARREL						Depth of Well in Feet	WORKING BARREL					
	1"	1-1/4"	1-1/2"	1-3/4"	2-1/4"	2-3/4"		1"	1-1/4"	1-1/2"	1-3/4"	2-1/4"	2-3/4"
	700	2177	2202	2288	2380	2618		2882	2900	7554	7821	8172	8558	9544	10638
800	2483	2517	2614	2720	2992	3293	3000	7798	8074	8437	8836	9876	10984
900	2686	2769	2879	2998	3304	3643	3100	8041	8326	8701	9114	10168	11333
1000	2930	3022	3143	3276	3616	3992	3200	8284	8574	8966	9392	10480	11683
1100	3173	3274	3407	3554	3928	4341	3300	8528	8831	9231	9670	10792	12033
1200	3417	3527	3674	3832	4240	4691	3400	8771	9084	9495	9948	11104	12382
1300	3660	3779	3936	4110	4552	5040	3500	9014	9336	9760	10226	11416	12732
1400	3904	4032	4201	4388	4864	5396	3600	9258	9589	10024	10504	11728	13081
1500	4147	4284	4466	4666	5176	5739	3700	9501	9841	10290	10784	12048	13431
1600	4391	4537	4730	4944	5488	6089	3800	9744	10094	10554	11060	12352	13780
1700	4634	4789	4995	5222	5800	6438	3900	9988	10349	10819	11338	12664	14130
1800	4878	5042	5260	5500	6112	6788	4000	10232	10600	11084	11616	12976	14480
1900	5121	5286	5525	5778	6424	7138	4100	10475	10852	11347	11892	13288	14829
2000	5364	5548	5790	6056	6736	7488	4200	10718	11105	11612	12172	13600	15179
2100	5607	5800	6064	6334	7048	7837	4300	10962	11359	11876	124		



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