DRILLING and PUMPING EQUIPMENT

CATALOG
No. 42

THE OIL COUNTRY SUPPLY MFG. CO.

COFFEYVILLE, KANSAS

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

⅝" DIAMETER SUCKER RODS

Depth of Well in Feet	WORKING BARREL						Depth of Well in Feet	WORKING BARREL					
	1"	1-¼"	1-½"	1-¾"	2-¼"	2-¾"		1"	1-¼"	1-½"	1-¾"	2-¼"	2-¾"
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	5576	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	3564	4240	4000	5176	5544	6028	6560	7920	9424
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

¾" DIAMETER SUCKER RODS

Depth of Well in Feet	WORKING BARREL						Depth of Well in Feet	WORKING BARREL					
	1"	1-¼"	1-½"	1-¾"	2-¼"	2-¾"		1"	1-¼"	1-½"	1-¾"	2-¼"	2-¾"
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	7425	7918	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	11160	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

⅞" DIAMETER SUCKER RODS

Depth of Well in Feet	WORKING BARREL						Depth of Well in Feet	WORKING BARREL					
	1"	1-¼"	1-½"	1-¾"	2-¼"	2-¾"		1"	1-¼"	1-½"	1-¾"	2-¼"	2-¾"
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	9452	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	13984
1900	4625	4790	5029	5282	5928	6642	4100	9979	10356	10851	11398	12792	14333
2000	4868	5052	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	12788	14352	16081
2500	6084	6314	6617	6950	7800	8739	4700	11439	11871	12440	13066	14664	16430
2600	6328	6566	6882	7628	8112	9089	4800	11682	12124	12704	13344	14976	16780
2700	6571	6819	7146	7506	8424	9438	4900	11926	12377	12870	13622	15288	17130
2800	6814	7072	7411	7784	8736	9788	5000	12170	12630	13135	13900	15600	17480

1" DIAMETER SUCKER RODS

Depth of Well in Feet	WORKING BARREL						Depth of Well in Feet	WORKING BARREL					
	1"	1-¼"	1-½"	1-¾"	2-¼"	2-¾"		1"	1-¼"	1-½"	1-¾"	2-¼"	2-¾"
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	8264	8534	8966	9392	10480	11683
1100	3173	3274	3407	3554	3928	3841	3300	8528	8831	9231	9670	10792	12033
1200	3417	3527	3674	3832	4240	4591	3400	8771	9084	9495	9948	11104	12382
1300	3560	3779	3936	4110	4552	5040	3500	9014	9336	9760	10226	11416	12732
1400	3904	4032	4201	4388	4864	5390	3600	9258	9589	10024	10504	11728	13081
1500	4147	4284	4466	4666	5176	5739	3700	9501	9841	10290	10784	12040	13431
1600	4391	4537	4730	4944	5488	6089	3800	9744	10094	10554	11060	12352	13780
1700	4634	4789	4905	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	11005	11612	12172	13600	15179
2100	5607	5800	6064	6334	7048	7837	4300	10962	11359	11876	12450	13912	15528
2200	5850	6053	6319	6612	7360	8187	4400	11205	11610	12141	12728	14224	15878
2300	6092	6305	6584	6890	7672	8536	4500	11448	11862	12407	13061	14536	16227
2400	6337	6558	6848	7168	7984	8884	4600	11692	12115	12671	13284	14848	16577
2500	6580	6810	7113	7446	8296	9235	4700	11934	12367	12936	13564	15160	16926
2600	6724	7062	7378	8124	8608	9585	4800	12178	12620	13200	13840	15472	17276
2700	7067	7315	7642	8002	8920	9934	4900	12422	12873	13366	14118	15784	17626
2800	7310	7568	7907	8280	9232	10284	5000	12666	13126	13631	14396	16096	17976

For each 100 ft. that the fluid stands above working barrel, subtract from table for 1" barrel 17 lbs.; for 1¼" barrel 26 lbs.; for 1½" barrel 38 lbs.; for 1¾" barrel 52 lbs.; for 2¼" barrel 86 lbs.; for 2¾" barrel 124 lbs.

SADDLE, TAILBOARD AND HANGER BEARINGS

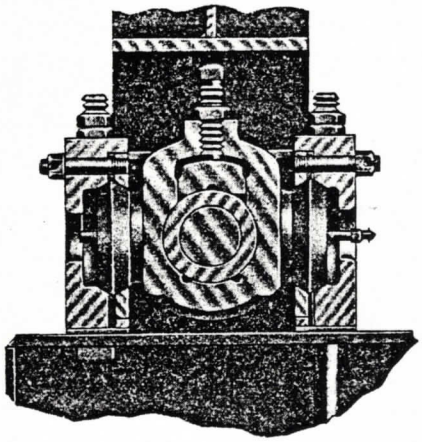


FIG. 106-3
Cross Section of Tailboard Bearing viewed from walkside.

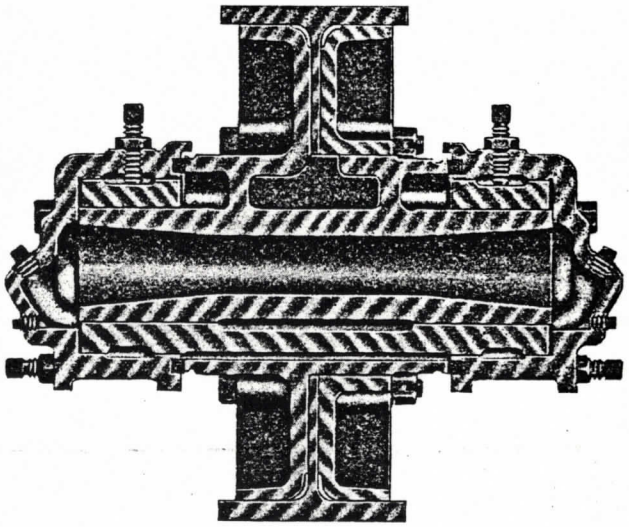


FIG. 106-6
Cross Section of Saddle Bearing Assembly.

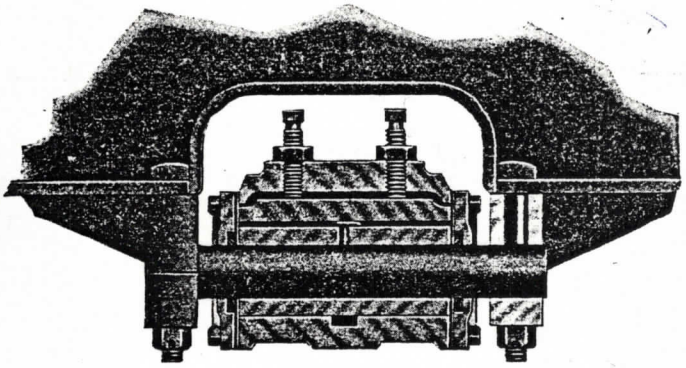


FIG. 106-1
Cross Section of Tailboard Bearing Assembly.

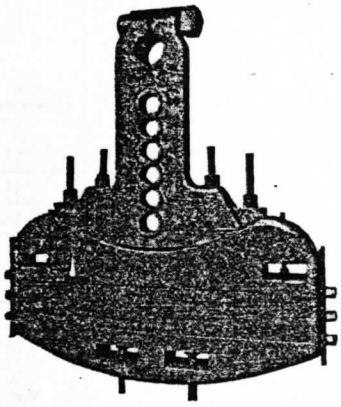


FIG. 362
O C S Crank with 8" Equalizer.

O C S CRANK TYPE EQUALIZERS

Figure 139 at the right shows the O C S 8" crank type equalizer and 7" yoke assembly attached to a 4-hole standard A.P.I. crank. Figure 362 on the left illustrates an O C S split hub 6-hole steel crank, designed to fit the O C S equalizer without using the yoke assembly. By using either the O C S split hub iron or steel crank, or the O C S yoke assembly an O C S equalizer can be used on any standard rig or pumping unit crankshaft. O C S equalizers have been used on more wells than any other centrifugal type balance. These illustrations show how O C S equalizers can be applied either to special cranks or to standard cranks by the use of the yoke assembly. The balance can be put on or taken off in five minutes for well servicing. Special bulletin on Weights of Wells on request.

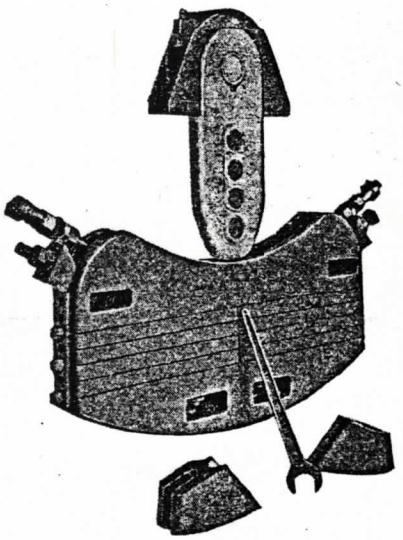


FIG. 139

PRICES

	Price Item No.	App. Weight, Lbs., Each		Price Item No.	App. Weight, Lbs., Each
8" Equalizer less extra weights	E-1	2,500	7" Equalizer less extra weights	E-6	1,900
Add for:			**Add for:**		
Extra 150 lbs. cast iron weights (each)	E-2	150	Extra 125 lbs. cast iron weights (each)	E-7	125
Extra 210 lbs. lead weights (per cwt.)	E-3	210	Extra 190 lbs. lead weights (per cwt.)	E-3	190
8" Yoke Assembly	E-4	480	7" Yoke Assembly	E-8	400
or					
7" Yoke Assembly	E-5	400			

The Oil Country Specialties Mfg. Co.

O C S BALANCE CRANKS AND BANDWHEEL SHAFTS

O C S 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 O C S Crank Type Equalizer.

O C S 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.

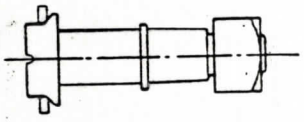
PRICES

		Size Equal. Used	Maximum Dia. Wrist Pin Hole	Taper Wrist Pin Hole	Stock Bore	Maximum Bore	Price Item No.	Weight Lbs. Each
IRON CRANKS								
96326	2-Hole 34″ Stroke w/Split Hub	None	2″	¾″ in 12″	3″	3½″	E- 9	330
37432	3-Hole 34″ Stroke w/Split Hub	6″	2½″	¾″ in 12″	3⅞″—4⅛″	4½″	E-10	280
37149B or C	3-Hole 44″ Stroke w/Split Hub	6″	2.929″	¾″ in 12″	3⅞″—4⅛″	4½″	E-11	350
371618	3-Hole 54″ Stroke w/Split Hub	6″	2½″	¾″ in 12″	4⅛″	4½″	E-44	400
37174 or B	3-Hole 44″ Stroke w/Split Hub	8″ Spec.	2.929″	¾″ in 12″	4⅛″	4½″	E-12	560
371312	3-Hole 44″ Stroke w/Split Hub	8″ Spec.	2.929″	¾″ in 12″	5″	5½″	E-13	610
37958 or A	3-Hole 54″ Stroke w/Split Hub	8″ Spec.	2.929″	¾″ in 12″	4⅛″—5″	5½″	E-14	660
37374B	4-Hole 54″ Stroke w/Split Hub	7″	3⅛″	¾″ in 12″	5⅛″—6″	6½″	E-15	680
37222	4-Hole 54″ Stroke w/Split Hub	8″	3⅛″	¾″ in 12″	6″	6½″	E-16	720
85244	4-Hole 54″ Stroke w/Split Hub (for Portable Front)	8″	3½″	¾″ in 12″	6″	6½″	E-17	900
8527H	4-Hole 54″ Stroke w/Split Hub	8″	4″	¾″ in 12″	6″—6 1/16″	7″	E-18	935
37806A or C	4-Hole 64″ Stroke w/Split Hub	7″	3⅛″	¾″ in 12″	6″	6½″	E-19	840
85143D	Backside Equalizer Crank	8″	.....	.....	6″	6″	E-20	890
85273	2-Hole 34″ Stroke w/Split Hub for Backside	None	3½″	¾″ in 12″	5½″	6½″	E-21	420
37438	3-Hole 44″ Stroke w/Split Hub for Backside	None	3½″	¾″ in 12″	5½″—6″	6½″	E-22	460
STEEL CRANKS								
37374A	4-Hole 54″ Stroke w/Split Hub (for 7″ Equalizer only)	7″	3⅛″	¾″ in 12″	5⅛″—6″	6½″	E-23	695
L-151	4-Hole 54″ Stroke w/Split Hub	8″	4″	¾″ in 12″	5″—6″—6½″	6½″	E-24	670
95204B or L	6-Hole 6″-74″ Stroke w/Split Hub	8″	4″	¾″ in 12″	6″	7″	E-25	900
9573K or M	6-Hole 6″ or 7″ 74″ Stroke w/Split Hub	8″	4″	¾″ in 12″	6″-6½″-7″	7″	E-43	1200
85272	3-Hole 42″ Stroke w/Split Hub (for Backside Pumping)	None	3⅛″	¾″ in 12″	5″-5½″-6″-7″	7″	E-26	435
37438D	3-Hole 44″ Stroke w/Split Hub (for Backside Pumping)	None	3½″	¾″ in 12″	6″	6½″	E-27	465

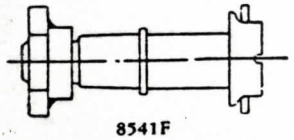
BANDWHEEL SHAFTS		Price Item No.	Weight, Lbs., Each
	(O C S Shafts are 2″ longer than API length)		
8524W	6″ A.P.I. x 93″ long, turned and ground (shorter shaft optional)	E-28	740
8524F	6″ A.P.I. x 99″ long, turned and ground (shorter shaft optional)	E-29	790
8524AB	7″ Special x 96″ long (shorter shaft optional)	E-30	1,040

SET COLLARS			
8552	6″ A.P.I. Plain	E-31	25
8598	6″ A.P.I. Split	E-32	40
85282	7″ Split	E-33	50

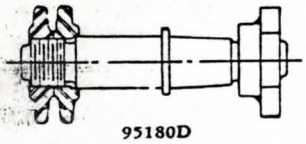
WRIST PINS & PULLERS



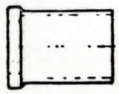
8541T
8541G



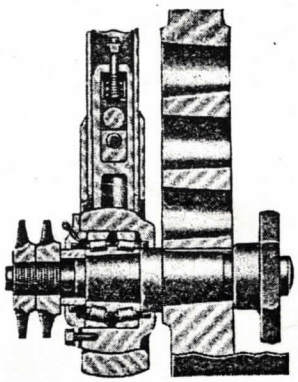
8541F



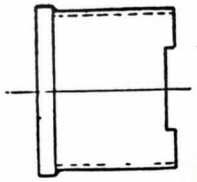
95180D
95231A



95185



5570A



5569

O C S Wrist Pins are tapered to assure a tight fit in every O C S crank. They are made to accommodate standard A. P. I. pitman bearing sizes or are made special for roller bearings. Special O C S 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.

PRICES

WRIST PINS	Price Item No.	Weight, Lbs., Each
8541T Regular 4″ Tapered, w/Nut and Washer	E-34	85
8541F California Type 6″ Flange 4″ Tapered w/Wing Nut and Washer	E-35	95
8541G 3½″ Tapered w/Nut and Washer for Backside Crank	E-36	75
95180D Puller Type 4″ Tapered w/Wing Nut and Collar Nuts	E-37	95
95231A Puller Type 3½″ Tapered w/Wing Nut and Collar Nuts	E-38	70
5570A, 4″ Tapered Roller Bearing Wrist Pin Complete w/Bearing and Self-aligning Bowl	E-39	180
WRIST PIN PULLERS		
95185 for 95180D Wrist Pin	E-40	16
95326 for 95231A Wrist Pin	E-41	16
5569 for 5570A Timken Bearing Wrist Pin	E-42	40

TO RON

OCS **The Oil Country Specialties Mfg. Co.** OCS

OCS POLLY PUMPERS

DOUBLE REDUCTION

SPECIFICATIONS

	No. 22½ Polly Figure 3 or 5	No. 22½ Polly Figure 2A	No. 32½ Polly Figure 2	No. 40 Polly Figure 2	No. 40 Polly Figure 2	No. 65 Polly Figure 2	No. 100 Polly
***Pumper Reducer Specifications:**							
Peak Torque, Inch Pounds	142,100	142,100	218,000	254,000	254,000	445,108	667,800
Peak Torque Converted to H. P. @ 20 R. P. M.	28.7	28.7	44	51.3	51.3	90	135
Ratio in Reducer	27.12:1	27.12:1	25.3:1	19.1:1	19.1:1	21.7:1	21.7:1
Primary Shaft Diameter at Bearing	2½"	2½"	3"	3⅜"	3⅜"	4"	4"
Intermediate Shaft Diameter at Bearing	2½"	2½"	3"	3¼"	3¼"	4"	4"
Crank Shaft Diameter at Bearing	5"	5"	5½"	6"	6"	7"	8"
Sheave Data:							
Standard Pitch Dia. and No. of Grooves	22" 4C	22" 4C	24" 6C	38" 5D	38" 6D	49¼" 7D	49¼" 8D
Maximum Pitch Diameter	52"	52"	52"	60"	60"	72"	72"
Maximum No. of Grooves with Belt Cover	5C	5C	6C	6D	6D	9D	9D
Maximum No. of Grooves without Belt Cover	6C	6C	7C	7D	7D	10D	10D
Pumper Structure Specifications:							
Polish Rod Stroke, Standard	24", 34", 44"	24", 34", 44"	24", 34", 44", 54"	24", 34", 44", 54"	24", 34", 44", 54", 64", 74"	34", 44", 54", 64", 74"	44", 67", 88", 108"
Crank Part No. used to obtain Standard Stroke	371312	371312	37374-B	37374-B	95204-B	9573-M	....
Polish Rod Stroke, Maximum	54"	54"	64"	64"	74"	74"	108"
Crank Part No. used to obtain Maximum Stroke	37958-A	37958-A	37806-C	37806-A	95204-B	9573-M	....
Walking Beam, Size and Weight	16" x 8½", 71 lb	18" x 8¾", 85 lb	24" x 9", 94 lb	27" x 10", 106 lb	30" x 10½", 132 lb	33" x 11½", 152 lb	Two 33"x11½" 152 lb
Walking Beam, Working Centers	12'-4"	16'-0"	20'-0"	23'-0"	25'-0"	25'-0"	25'-0"
Walking Beam, O C S Rating	17,000 lb	17,000 lb	20,000 lb	25,000 lb	25,000 lb	35,000 lb	50,000 lb
Walking Beam, A.I.S.C. Rating	27,260 lb	26,100 lb	27,160 lb	29,136 lb	36,000 lb	48,450 lb	74,000 lb
Hanger Bearing, Self-Oiling, Size	Horsehead	4" x 6¾"	4½" x 8¼"	5" x 9½"	5" x 9½"	5" x 9½"	Horsehead
Wrist Pin, Diameter at Crank	2.929"	2.929"	3½"	3½"	4"	4"	4¾"
Saddle Bearing, Self-Oiling, Size	6" x 10"	5" x 11½"	5½" x 14½"	6" x 14½"	6" x 14½"	7" x 17"	Two 7" x 17"
Saddle Bearing, Self-Oiling, Projected Area	60 Sq. In.	57½ Sq. In.	79¾ Sq. In.	87 Sq. In.	87 Sq. In.	119 Sq. In.	238 Sq. In.
Tailboard Bearing, Size	4" x 6¾"	4" x 6¾"	4½" x 8¼"	5" x 9½"	5" x 9½"	5" x 9½"	Two 5¾" x 11½"
Tailboard Bearing, Projected Area	27 Sq. In.	27 Sq. In.	37¼ Sq. In.	47½ Sq. In.	47½ Sq. In.	47½ Sq. In.	132¼ Sq. In.
Samson Post, Height to C.L. Bearing	9'-1"	12'-2"	15'-2"	15'-2"	18'-4"	18'-4¾"	Two 17'-2¾"
Samson Post, 4 Legs, Size of Legs	½" x 5" x 5"	½" x 5" x 5"	⅜" x 6" x 6"	½" x 6" x 6"	½" x 8" x 8"	½" x 8" x 8"	½" x 8" x 8"
Steel Base, Standard Section, Size and Weight	10" x 5¾"— 23 lb	10" x 5¾"— 23 lb	14" x 6¾"— 30 lb	14" x 6¾"— 30 lb	14" x 6¾"— 30 lb	14" x 10"— 61 lb	Concrete
Overall Height of Pumper	12'-3½"	14'-4½"	16'-9"	17'-1"	20'-2"	20'-4½"	....
Overall Length from Center of Well	23'-1"	26'-6½"	37'-1½"	35'-10"	38'-10"	40'-11"	....
Polish Rod Clamp	2 Bolt	2 Bolt	3 Bolt	3 Bolt	3 Bolt	4 Bolt	6 Bolt
Counterbalance Specifications:							
Cranktype Equalizers, Size	2-8" Special	2-8" Special	2-7"	2-7"	2-8"	2-8"	2-10"
Cranktype Equalizer, Light, Weight each	1200 lb	1200 lb	1400 lb	1400 lb	1900 lb	1900 lb	....
Cranktype Equalizer, Heavy, Weight each	1675 lb	1675 lb	1900 lb	1900 lb	2500 lb	2500 lb	5000 lb
Scale Type Adjustable Balance	1000 lb	....	....	....	....	....	....
Scale Type Adjustable Balance	3500 lb	....	....	....	....	....	....
Scale Type Adjustable Balance	5000 lb	....	....	....	....	....	....

• Detail Specifications of Pumper Reducers on Page 1303.

CAPACITY AND PRICE REFERENCE

	No. 22½ Polly Figure 3 or 5		No. 22½ Polly Figure 2A		No. 32½ Polly Figure 2		No. 40 Polly Figure 2		No. 40 Polly Figure 2		No .65 Polly Figure 2		No. 100 Polly	
Peak Torque, Inch Pounds	142.100		142.100		218,000		254,000		254,000		445,108		667,800	
Peak Torque, Converted to H.P. @ 20 R.P.M.	28.7		28.7		44		51.3		51.3		90		135	
Polish Rod Load	17,000 lb		17,000 lb		20,000 lb		25,000 lb		25,000 lb		35,000 lb		50,000 lb	
	Price Item No.	Ap. Wt. Lbs.	Price Item No.	Ap. Wt. Lbs.	Price Item No.	Ap. Wt. Lbs.	Price Item No.	Ap. Wt. Lbs.	Price Item No.	Ap. Wt. Lbs.	Price Item No.	Ap. Wt. Lbs.	Price Item No.	Ap. Wt. Lbs.
Pumper Complete with Base Extension and Slide Rails for Multi-Cylinder Engine or Electric Motor	R-127	9.400	R-155	10,200	R-179	16,750	R-203	19,250	R-227	23,250	R-250	38.500	....	....
Pumper Complete, Less Complete Base	....	....	....	....	....	....	....	....	....	....	....	....	R-273	41,000
Add for the following:														
Outboard Support for Engine, needed only when Engine overhangs Main Base and Support is needed	R-128	125	R-156	125	R-180	250	R-204	300	R-228	300	R-251	500	....	....
Extra for Base Extension for Horizontal or Vertical Engine	R-129	300	R-157	300	R-181	750	R-205	950	R-229	1,050	R-252	1,650	....	....
Subbase between Reducer and Main Base	R-130	600	R-158	700	R-182	1,500	R-206	1,700	R-230	2,800	R-253	2,800	....	....
Extra Weight for Beam	R-131	400	R-159	400	....	....	....	....	....	....	....	....	....	....
Cranktype Equalizers, Light, per pair	R-132	2,400	R-160	2,400	R-183	2,800	R-207	2,800	R-231	3,800	R-254	3,800	....	....
Cranktype Equalizers, Heavy, per pair	R-133	3,350	R-161	3,350	R-184	3,800	R-208	3,800	R-232	5,000	R-255	5,000	R-274	10,000
Extra Weights for Cranktype Equalizers	R-134	110	R-162	110	R-185	125	R-209	125	R-233	150	R-256	150	R-275	250
Scale Type Adjustable Balance	R-135	1,000	....	....	....	....	....	....	....	....	....	....	....	....
Scale Type Adjustable Balance	R-136	3,500	....	....	....	....	....	....	....	....	....	....	....	....
Scale Type Adjustable Balance	R-137	5,000	....	....	....	....	....	....	....	....	....	....	....	....
Adjustable Balance, not Scale Type	R-138	500	....	....	....	....	....	....	....	....	....	....	....	....
V-Belt Cover to Engine House	R-139	225	R-163	225	R-186	240	R-210	290	R-234	400	R-257	450	R-276	500
V-Belt Cover for Entire Drive when Belt Idler is not used	R-140	275	R-164	275	R-187	400	R-211	560	R-235	750	R-258	800	R-277	900
Headache Post	R-141	225	R-165	225	R-188	250	R-212	275	R-236	350	R-259	350	Two R-278	425
Beam Catcher	R-142	100	R-166	100	R-189	100	R-213	125	R-237	150	R-260	150	Two R-279	150
V-Belt Idler	....	....	....	....	R-190	530	R-214	600	R-238	600	R-261	800	R-280	850
Bell Crank with Double Bearing and Double Pull Rod	R-143	2,000	R-167	2,000	R-191	2,500	R-215	2,500	R-239	2,500	R-262	2,700	....	....
Bell Crank with Double Bearings and Single Pull Rod	R-144	1,900	R-168	1,900	R-192	2,300	R-216	2,300	R-240	2,300	R-263	2,500	....	....
Bell Crank with Single Bearing and Single Pull Rod	R-145	1,850	R-169	1,850	R-193	2,200	R-217	2,200	R-241	2,200	R-264	2,400	....	....
Samson Post Ladder with Safety Ring	R-146	100	R-170	100	R-194	170	R-218	170	R-242	200	R-265	200	Two R-281	200
Samson Post Inspection Platform with Ladder	R-147	235	R-171	235	R-195	250	R-219	275	R-243	330	R-266	330	R-282	350
Lubricating System for Tailboard and Hanger Bearing, ea.	R-148	8	R-172	8	R-196	10	R-220	10	R-244	15	R-267	15	Two R-283	15
Equalizer Guard Rails (Angle Iron Type)	R-149	280	R-173	280	R-197	300	R-221	300	R-245	300	R-268	300	R-284	400
Equalizer Guard Rails (Pipe Type)	R-150	420	R-174	420	R-198	450	R-222	450	R-246	450	R-269	450	R-285	600
Complete Set Foundation Bolts and Grouting Tubes	R-151	200	R-175	200	R-199	240	R-223	260	R-247	280	R-270	850	R-286	1,200
Polish Rod Clamp	R-152	25	R-176	25	R-200	34	R-224	34	R-248	34	R-271	43	R-287	64
Extra for Cranks to obtain Maximum Stroke	R-153	100	R-177	100	R-201	320	R-225	320	....	....	....	....	....	....
Wrist Pin Puller	R-154	45	R-178	45	R-202	75	R-226	75	R-249	75	R-272	85	R-288	100
Motors, Engines, Drive Sheaves and V-Belts	Current Prices													

O C S BAT PUMPER REDUCERS
SINGLE REDUCTION

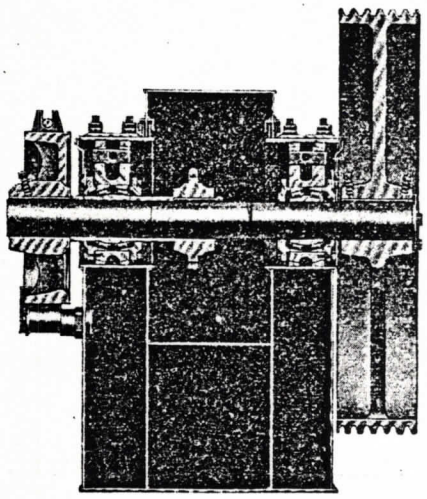


FIG. 106-4

Cross section of Primary Shaft Assembly viewed from well end.

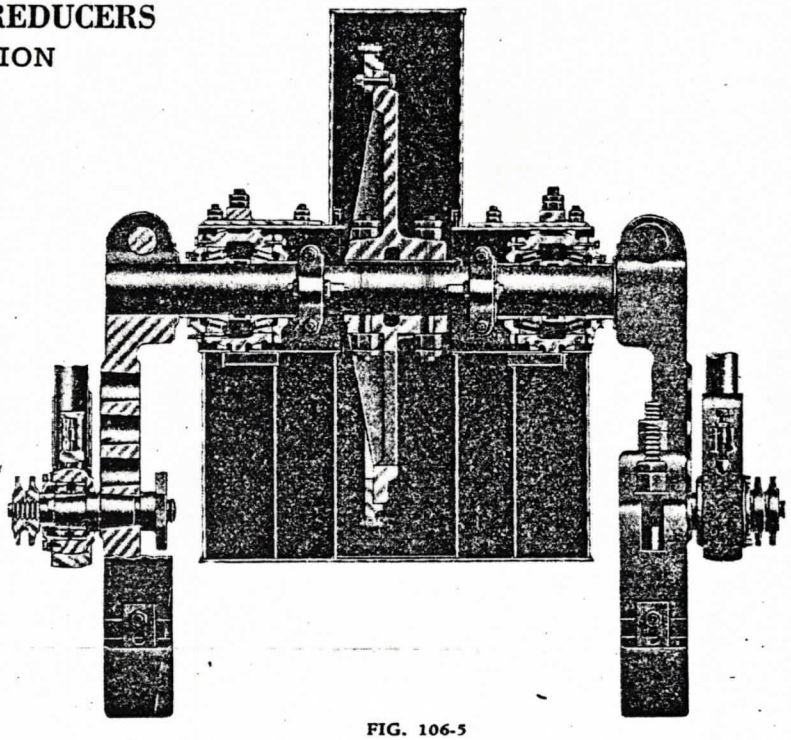


FIG. 106-5

Cross Section of Crank Shaft Assembly viewed from well end.

The O C S 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.

BAT PUMPER REDUCERS—SINGLE REDUCTION
SPECIFICATIONS

	No. 10 Bat	No. 15 Bat	No. 22½ Bat	No. 32½ Bat	No. 40 Bat	No. 50 Bat	No. 75 Bat	No. 100 Bat
Peak Torque, Inch Pounds	120,600	108,600	163,000	262,700	329,958	521,623	656,700	656,700
Peak Torque Converted to H.P. @ 20 R.P.M.	24.3	22	33	53	66.65	105.37	132.7	132.7
Ratio in Reducer	7.46:1	6:1	6:1	6.3:1	6.44:1	6.65:1	6:1	6:1
Sheave Diameter and No. of Grooves, Standard	44″ 3C	42″ 3D	42″ 4D	52″ 5D	49″ 6D	56″ 7D	†72″ 8D	60″-M72″-9E
Sprockets, No. of Teeth	13-97	13-78	13-78	13-82	16-103	17-113	15-90	15-90
Chain, Size	1¼″ Triple	1½″ Double	1½″ Triple	1¾″ Triple	1¾″ Triple	2″ Triple	2½″ Double	2½″ Double
Crankshaft, Timken Bearings, Diameter	3½″	4¼″	5″	5½″	6″	6″	7″	7″
Countershaft Shaft, Timken Bearings, Diameter	2½″	3¼″	3¼″	4″	4½″	4½″	4½″	5″
	+.000	+.000	+.000	+.000	+.000	+.000	+.000	+.000
Diameter Countershaft Extension, Inches	2.500 —.001	3.250 —.001	3.250 —.001	4.000 —.001	4.500 —.001	4.500 —.001	4.500 —.001	5.000 —.001
Keyway Countershaft Shaft	⅝″ x ⅜″	¾″ x ⅜″	¾″ x ⅜″	1″ x ½″	1″ x ⅜″	1″ x ¼″	1″ x ¼″	1¼″ x ½″
Case Size, Overall	26″ x 70″	29½″ x 72″	29½″ x 72″	33½″ x 81½″	46½″x100½″	53½″x125¼″	53½″x125¼″	68½″ x 120″
Foundation Bolts, No. and Size	10-1½″	8-1¼″	8-1¼″	4-1¼″, 4-1½″	10-1½″	10-1½″	6-1½″, 4-2″	10-2″

† Narrow Spacing.

Note: All chains are Extra Heavy.

PRICES

	No. 10 Bat		No. 15 Bat		No. 22½ Bat		No. 32½ Bat		No. 40 Bat		No. 50 Bat		No. 75 Bat		No. 100 Bat	
	Price Item No.	Wt. Lbs. Each	Price Item No.	Wt. Lbs. Each	Price Item No.	Wt. Lbs. Each	Price Item No.	Wt. Lbs. Each	Price Item No.	Wt. Lbs. Each	Price Item No.	Wt. Lbs. Each	Price Item No.	Wt. Lbs. Each	Price Item No.	Wt. Lbs. Each
Pumper Reducer only	M-1	2,100	M-3	2,800	M-5	3,300	M-7	4,200	M-9	6,500	M-11	9,400	M-13	10,000	M-15	13,800
Add for following: Brake	M-2	185	M-4	290	M-6	290	M-8	325	M-10	450	M-12	550	M-14	550	M-16	625

Cranks and Equalizers, see pages 1805 and 1807.
Driven Sheaves, current prices.
Beam, Samson Post and Hanger, see pages 1806 and 1807.
Pitmans, Stirrups, Wrist Pins, see page 1806.

OCS The Oil Country Specialties Mfg. Co. OCS

O C S BAT PUMPERS
SINGLE REDUCTION

SPECIFICATIONS

	No. 32½ Bat Figure 2	No. 40 Bat Figure 2	No. 50 Bat Figure 2	No. 75 Bat Figure 2	No. 100 Bat
***Pumper Reducer Specifications:**					
Peak Torque, Inch Pounds	262,700	329,958	521,623	656,700	656,700
Peak Torque Converted to H.P. @ 20 R.P.M.	53	66.65	105.37	132.7	132.7
Ratio in Reducer, Standard	6.3:1	6.44:1	6.65:1	6:1	6:1
Ratio in Reducer, Maximum	7.45:1	6.86:1	7.53:1	6.92:1	6.92:1
Primary Shaft Diameter at Bearing	4″	4½″	4½″	4½″	5″
Crankshaft Diameter at Bearing	5½″	6″	6″	7″	7″
Sheave Data:					
Standard Pitch Dia. and No. of Grooves	52″ 5D	49″ 6D	56″ 7D	**72″ 8D	60″ 9E
Maximum Pitch Dia.	52″	56″	72″	72″	72″
Maximum No. of Grooves with Belt Cover	5D	6D	7D	**8D	10E
Maximum No. of Grooves without Belt Cover	5D	7D	8D	**8D	10E
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″	34,″ 44,″ 54,″ 64,″ 74″
Crank Part No. used to obtain Standard Stroke	37374B	37374B	95204B	9573M	9573M
Polish Rod Stroke, Maximum	64″	74″	.....	.....	.....
Crank Part No. used to obtain Max. Stroke	37806C	95204L	.....	.....	.....
Walking Beam, Size and Weight	24″ x 9″—94 lb.	27″ x 10″—106 lb	30″ x 10½″—132 lb.	33″ x 11½″—152 lb.	Two 30″ x 10½″–132lb.
Walking Beam, Working Centers	20′-0″	23′-0″	25′-0″	25′-0″	25′-0″
Walking Beam, OCS Rating	20,000 lb.	25,000 lb.	25,000 lb.	35,000 lb.	50,000 lb.
Walking Beam, A.I.S.C. Rating	27,160 lb.	29,136 lb.	36,000 lb.	48,450 lb.	72,000 lb.
Hanger Bearing, Self-Oiling, Size	4½″ x 8¼″	5″ x 9½″	5″ x 9½″	5″ x 9½″	Two 5″ x 9½″
Wrist Pin., Dia. at Crank	3½″	3½″	4″	4″	4″
Saddle Bearing, Self-Oiling, Size	5½″ x 14½″	6″ x 14½″	6″ x 14½″	7″ x 17″	Two 6″ x 14½″
Saddle Bearing, Self-Oiling, Projected Area	79¾ Sq. In.	87 Sq. In.	87 Sq. In.	119 Sq. In.	174 Sq. In.
Tailboard Bearing, Size	4½″ x 8¼″	5″ x 9½″	5″ x 9½″	5″ x 9½″	Two 5″ x 9½″
Tailboard Bearing, Projected Area	37¼ Sq. In.	47½ Sq. In.	47½ Sq. In.	47½ Sq. In.	95 Sq. In.
Samson Post, Height to C. L. Bearing	15′-2″	15′-2″	18′-4″	18′-4″	Two 17′-2¾″
Samson Post, 4 Legs, Size of Legs	½″ x 6″ x 6″	½″ x 6″ x 6″	½″ x 8″ x 8″	½″ x 8″ x 8″	½″ x 8″ x 8″
Steel Base, Stand, Section, Size and Weight	14″ x 6¾″—30 lb	14″ x 6¾″—30 lb	14″ x 10″—61 lb	14″ x 10″—61 lb	Concrete
Overall Height of Pumper	16′-9″	17′-1″	20′-2″	20′-4½″	.....
Overall Length from Center of Well	33′-8″	37′-9½″	42′-5″	42′-5″	.....
Polish Rod Clamp	3-Bolt	4-Bolt	4-Bolt	4-Bolt	6-Bolt
Counterbalance Specifications:					
Crank Type Equalizer, Size	2–7″	2–7″	2–8″	2–8″	2–8″
Cranktype Equalizer, Light, Weight Each	1400 lb	1400 lb	1900 lb	1900 lb	1900 lb
Cranktype Equalizer, Heavy, Weight Each	1900 lb	1900 lb	2500 lb	2500 lb	2500 lb

* Detail specifications of pumper reducers on page 1799.
** Narrow Spacing.

CAPACITY AND PRICE REFERENCE

	No. 32½ Bat Figure 2		No. 40 Bat Figure 2		No. 50 Bat Figure 2		No. 75 Bat Figure 2		No. 100 Bat	
Peak Torque, Inch Pounds	262,700		329,958		521,623		656,700		656,700	
Peak Torque, Converted to H.P. @ 20 R.P.M.	53		66.65		105.37		132.7		132.7	
Polish Rod Load	20,000 lb		25,000 lb		25,000 lb		35,000 lb		50,000 lb	
	Price Item No.	Approx. Wt. Lbs.	Price Item No.	Approx. Wt. Lbs.	Price Item No.	Approx. Wt. Lbs.	Price Item No.	Approx. Wt. Lbs.	Price Item No.	Approx. Wt. Lbs.
Pumper Complete with Base Extension for Multi-Cylinder Engine or Electric Motor, Includes Slide Rails	L-126	16,300	L-152	21,000	L-178	30,000	L-203	35,000	.....	.....
Pumper Complete, Less Complete Base	.....	.....	.....	.....	.....	.....	.....	.....	L-225	40,500
Add for the Following:										
Extra for Base Extension for Horizontal or Vertical Engine, when Belt Idler is Furnished	L-127	1,500	L-153	2,100	L-179	3,400	L-204	3,400	.....	.....
Extra for Base Extension for Horizontal or Vertical Engine when Belt Idler is not Furnished. Base Slotted for V-Belt Adjustment	L-128	700	L-154	1,100	L-180	2,200	L-205	2,200	.....	.....
Outboard Support for Engine, needed only when Engine overhangs Main Base and Support is needed	L-129	250	L-155	300	L-181	300	L-206	300	.....	.....
Subbase between Reducer and Main Base	L-130	600	L-156	800	L-182	1,000	L-207	1,000	.....	.....
Cranktype Equalizers, Light, per pair	L-131	2,800	L-157	2,800	L-183	3,800	L-208	3,800	L-226	3,800
Cranktype Equalizers, Heavy, per pair	L-132	3,800	L-158	3,800	L-184	5,000	L-209	5,000	L-227	5,000
Extra Wts. for Cranktype Equalizers, ea	L-133	125	L-159	125	L-185	150	L-210	150	L-228	150
Headache Post	L-134	270	L-160	280	L-186	350	L-211	380	Two L-229	440
Beam Catcher	L-135	125	L-161	175	L-187	295	L-212	295	Two L-230	295
V-Belt Cover for Entire Drive when Belt Idler is not used	L-136	500	L-162	570	L-188	700	L-213	840	L-231	900
V-Belt Cover to Engine House	L-137	275	L-163	300	L-189	315	L-214	400	L-232	450
V-Belt Idler with Flat Pulley	L-138	450	L-164	580	L-190	600	L-215	850	L-233	850
V-Belt Idler with Grooved Sheave	L-139	470	L-165	600	L-191	625	L-216	890	L-234	890
Equalizer Guard Rails (Angle Iron Type)	L-140	275	L-166	300	L-192	300	L-217	325	L-235	350
Equalizer Guard Rails (Pipe Type)	L-141	410	L-167	450	L-193	450	L-218	475	L-236	525
Bell Crank with Double Brgs. and Double Pull Rods	L-142	2,500	L-168	2,500	L-194	2,700	.....	.....	.....	.....
Bell Crank with Double Brgs. and Single Pull Rods	L-143	2,300	L-169	2,300	L-195	2,500	.....	.....	.....	.....
Bell Crank with Single Brgs. and Single Pull Rods	L-144	2,200	L-170	2,200	L-196	2,400	.....	.....	.....	.....
Samson Post Ladder with Safety Ring	L-145	125	L-171	170	L-197	200	L-219	200	L-237	250
Samson Post Insp. Platform w/Ladder	L-146	250	L-172	275	L-198	330	L-220	330	L-238	470
Lubricating System for Hanger and Tailboard Bearings, each	L-147	10	L-173	10	L-199	10	L-221	10	Two L-239	10
Wrist Pin Puller	L-148	75	L-174	75	L-200	75	L-222	75	L-240	75
Complete Set Foundation Bolts w/GR Tubes	L-149	300	L-175	325	L-201	350	L-223	350	L-241	1,175
Polish Rod Clamp	L-150	34	L-176	43	L-202	43	L-224	43	L-242	65
Extra for Maximum Stroke Cranks	L-151	320	L-177	440	.....	.....	.....	.....	.....	.....
Motors, Engines, Drive Sheaves and V-Belts.	Current Prices									

O C S PUMPERS

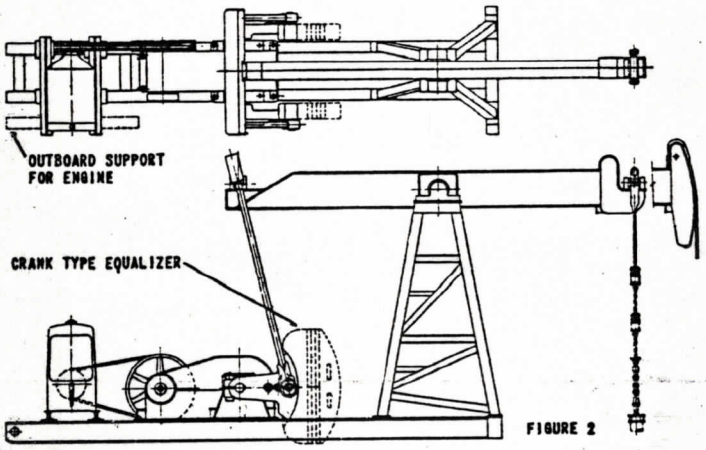
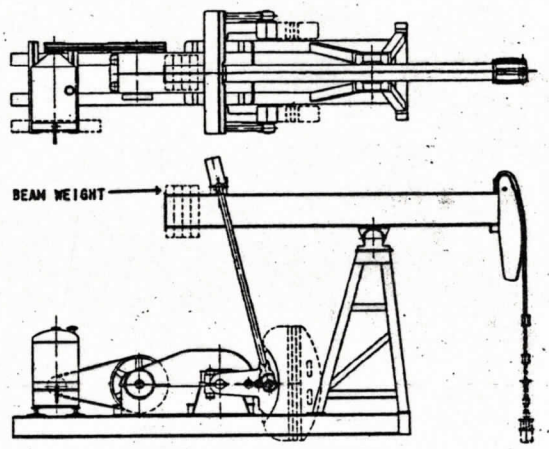


FIGURE 2

THIS STYLE FURNISHED IN THE FOLLOWING SIZES:
No. 32½, No. 40, No. 50, No. 75 BATS AND No. 32½, No. 40, No. 65 POLLYS



THIS STYLE FURNISHED IN THE FOLLOWING SIZES:
No. 10 BAT AND No. 5, No. 10, No. 22½ POLLYS

FIGURE 3

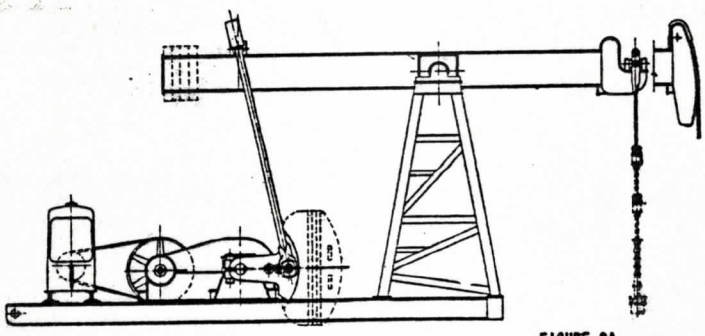
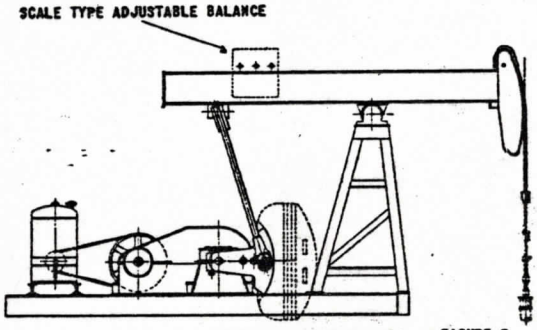


FIGURE 2A

THIS STYLE FURNISHED IN THE FOLLOWING SIZES:
No. 10, No. 15, No. 22½ BATS; No. 10, No. 15, No. 22½ POLLYS



THIS STYLE FURNISHED IN THE FOLLOWING SIZES:
No. 10 BAT AND No. 10, No. 22½ POLLYS

FIGURE 5

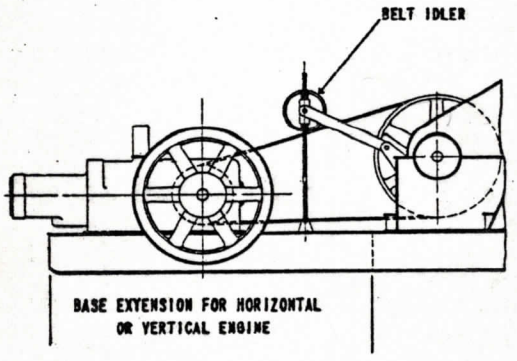


FIGURE 12

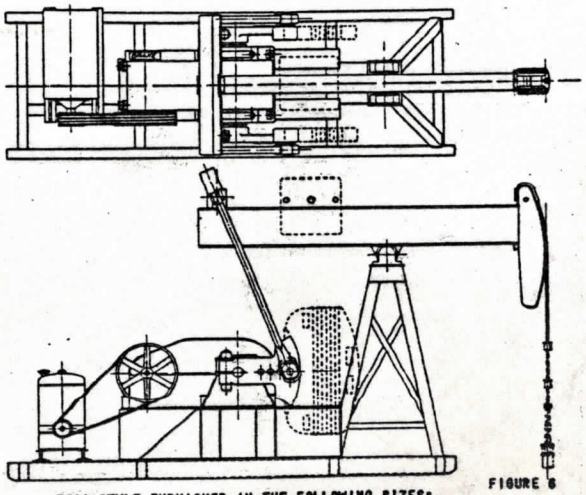


FIGURE 8

THIS STYLE FURNISHED IN THE FOLLOWING SIZES:
No. 10 GOSLIN, No. 22½ DUCK AND No. 32½ DRAKE