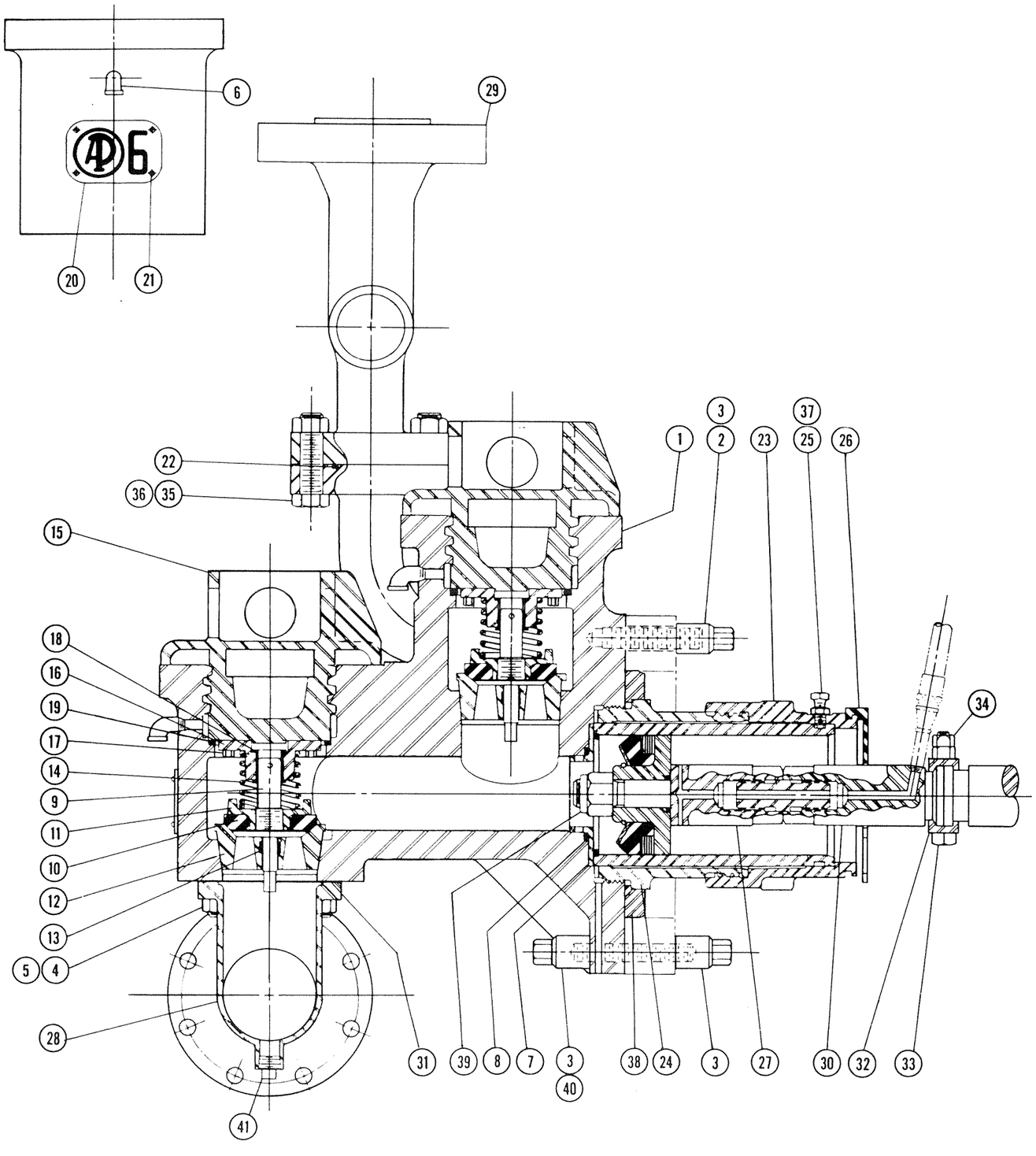


BILL OF MATERIAL			
ITEM	REQ'D.	COMM. NO.	DESCRIPTION
1*	3	10-305-002	FLUID END*
2	6	45-810-020	STUD, 1-1/8 – 8 x 5-1/4
3	18	10-200-004	NUT, 1-1/8 – ACORN
4	12	45-810-018	STUD, 7/8 –9 X 3
5	12	75-510-314	7/8–9 HEAVY HEX NUT
6	6	86-342-103	3/8 x 90° 150# MI STREET ELBOW
7	3	10-305-110	PLATE, LINER WEAR
8	3	20-100-014	GASKET, LINER WEAR PLATE
–	6	20-160-171	VALVE COMPLETE (INCLS. ITEMS 9, 10 & 11)
9	6	20-160-177	VALVE BODY
10	6	20-180-024	VALVE DISC (POLYURETHANE)
11	6	20-860-029	VALVE NUT
–	6	20-220-099	VALVE SEAT COMPLETE (INCLS. ITEMS 12 & 13)
12	6	20-220-097	VALVE SEAT
13	6	20-101-767	VALVE SEAT BUSHING
14	6	20-160-225	VALVE SPRING
15	6	10-305-097	COVER, VALVE
16	6	10-305-098	GUIDE, VALVE
17	24	75-632-135	1/2 – 13 X 1" SELF–LOCKING CAPSCREW
18	6	20-200-004	BUSHING, VALVE GUIDE
19	6	10-268-004	GASKET, VALVE COVER
20	3	10-305-126	PLATE, SPECIFICATION (API# 6)
21	12	75-632-012	No. 2 x 1/4 DRIVE SCREW
22	3	99-509-343	"O"–RING (3-5/8 x 4" x 3/16)
23	3	10-305-037	NUT, LINER ADAPTER
24	3	10-305-020	ADAPTER, LINER
25	9	75-632-735	5/8–11 X 1-1/4 DOG POINT SETSCREW
26	3	20-460-666	SHIELD, LINER FLUSHING
27	3	20-150-123	PISTON ROD
28	1	10-205-000	SUCTION MANIFOLD (INCL. ITEM 41)
29	1	10-200-058	MANIFOLD, DISCHARGE
30	3	20-150-125	EXTENSION, PISTON ROD
31	1	10-200-061	GASKET, SUCTION MANIFOLD
32	3	10-212-103	CLAMP COMPLETE (INCLS. ITEMS 33 & 34)
33	6	75-608-050	5/8–11 X 5-1/2 CAD. PLTD. SQ HD MACHINE BOLT
34	12	75-510-438	5/8–11 S.S. HEX NUT
35	12	75-635-138	1-1/8–7 x 4-1/2 HEX HD HT CAPSCREW
36	12	75-510-318	1-1/8 –7 HEAVY HEX NUT
37	9	75-510-508	5/8 –11 HEX JAM NUT
38	3	10-200-059	RING, PILOT
39	3	20-150-142	NUT, PISTON RETAINING
40	6	45-810-039	STUD, 1-1/8 –8 X 6-3/4
41	1	86-486-108	1" CI SOLID SQ. HD PIPE PLUG

1

* INCLUDES ITEM 2 AND SIX OF ITEM 3, ALSO ITEMS 4 THRU 8.

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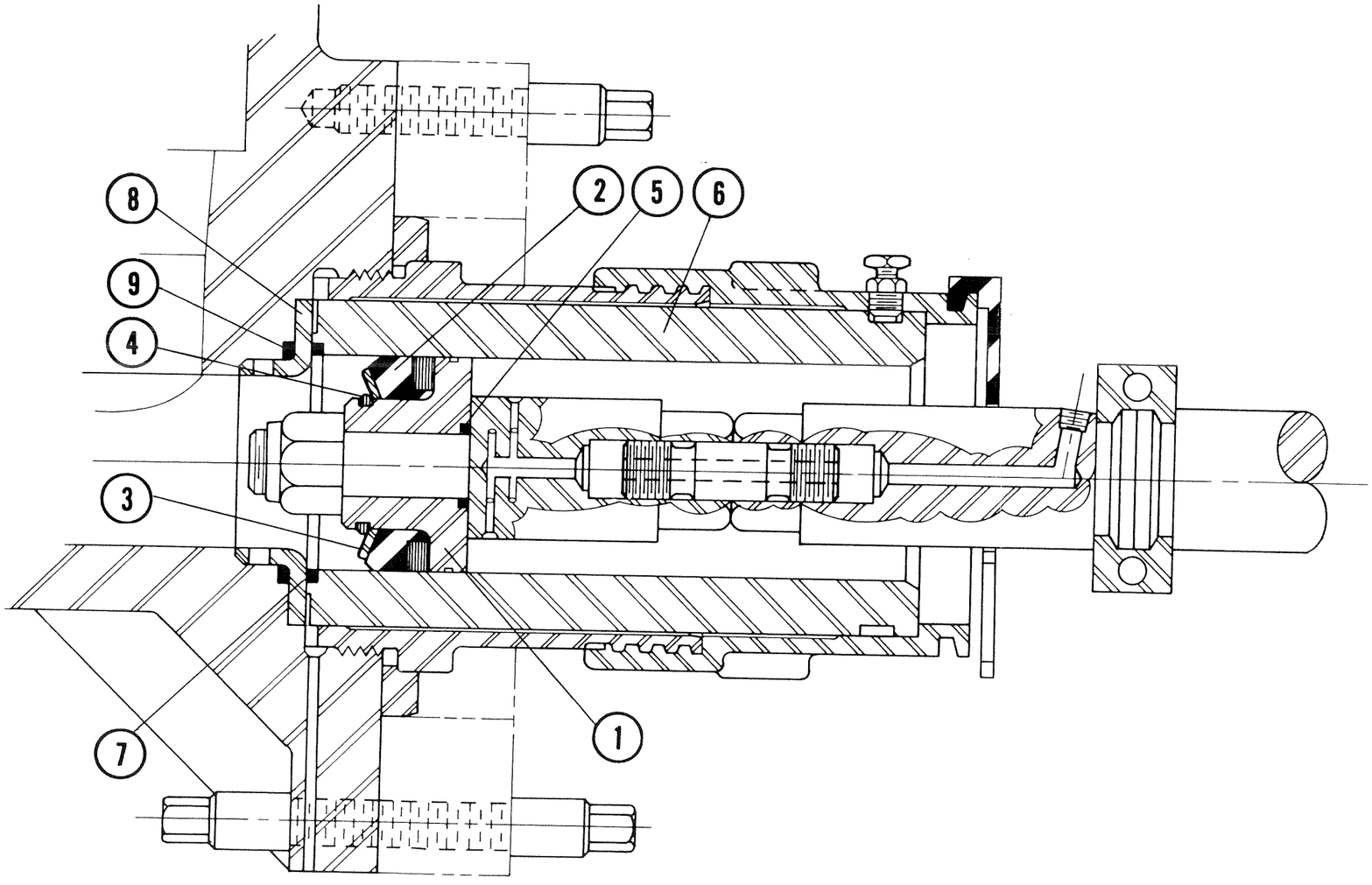
NATIONAL - OILWELL

FLUID END

A560-PT TRIPLEX PISTON PUMP

DRAWING NO. **P198-AF1**

SIZE **C**



BILL OF MATERIAL			
ITEM	REQ'D.	COMM. NO.	DESCRIPTION
–	3	20-020-500	4" SERIES "K" PISTON COMPLETE *
–	3	20-020-501	4-1/2 SERIES "B" PISTON COMPLETE*
–	3	20-020-502	5" SERIES "B" PISTON COMPLETE*
–	3	20-020-503	5-1/2 SERIES "B" PISTON COMPLETE*
–	3	20-020-504	5-3/4 SERIES "B" PISTON COMPLETE*
–	3	20-020-505	6" SERIES "B" PISTON COMPLETE*
–	3	20-020-507	6-1/2 SERIES "L" PISTON COMPLETE*
1	3	20-120-372	4" PISTON BODY
	3	20-120-373	4-1/2 PISTON BODY
	3	20-120-374	5" PISTON BODY
	3	20-120-375	5-1/2 PISTON BODY
	3	20-120-376	5-3/4 PISTON BODY
	3	20-120-377	6" PISTON BODY
	3	20-120-379	6-1/2 PISTON BODY
2	3	20-140-543	4" PISTON RUBBER (OIL RESISTANT)
	3	20-140-519	4-1/2 PISTON RUBBER (OIL RESISTANT)
	3	20-140-521	5" PISTON RUBBER (OIL RESISTANT)
	3	20-140-544	5-1/2 PISTON RUBBER (OIL RESISTANT)
	3	20-140-523	5-3/4 PISTON RUBBER (OIL RESISTANT)
	3	20-140-524	6" PISTON RUBBER (OIL RESISTANT)
	3	20-140-535	6-1/2 PISTON RUBBER (OIL RESISTANT)
3	3	20-140-545	RETAINING PLATE (F/ 4" PISTON)
	3	20-140-546	RETAINING PLATE (F/ 4-1/2 PISTON)
	3	20-140-547	RETAINING PLATE (F/ 5" PISTON)
	3	20-140-547	RETAINING PLATE (F/5-1/2 PISTON)
	3	20-140-548	RETAINING PLATE (F/5-3/4 P ISTON)
	3	20-140-548	RETAINING PLATE (F/6" PISTON)
	3	20-140-553	RETAINING PLATE (F/6-1/2 PISTON)
4	3	20-140-283	SNAP RING (F/4" PISTON)
	3	20-140-282	SNAP RING (F/4-1/2 PISTON)
	3	20-140-282	SNAP RING (F/5" PISTON)
	3	20-140-282	SNAP RING (F/5-1/2 PISTON)
	3	20-140-282	SNAP RING (F/5-3/4 PISTON)
	3	20-140-282	SNAP RING (F/6" PISTON)
	3	20-140-281	SNAP RING (F/6-1/2 PISTON)
5	3	99-607-325	"O"–RING (1-7/8 x 1-1/2 x 3/16)
6	3	05-329-400	4" SUPER DI–HARD LINER
	3	05-329-450	4-1/2 SUPER DI–HARD LINER
	3	05-329-500	5" SUPER DI–HARD LINER
	3	05-329-550	5-1/2 SUPER DI–HARD LINER
	3	05-329-575	5-3/4 SUPER DI–HARD LINER
	3	05-329-600	6" SUPER DI–HARD LINER
	3	05-329-650	6-1/2 SUPER DI–HARD LINER
7	3	20-100-008	4" LINER GASKET
	3	20-100-008	4-1/2 LINER GASKET
	3	20-100-008	5" LINER GASKET
	3	20-100-009	5-1/2 LINER GASKET
	3	20-100-010	5-3/4 LINER GASKET
	3	20-100-011	6" LINER GASKET
	3	20-100-012	6-1/2 LINER GASKET
8	3	10-305-110	LINER WEAR PLATE
9	3	20-100-014	LINER WEAR PLATE GASKET

2

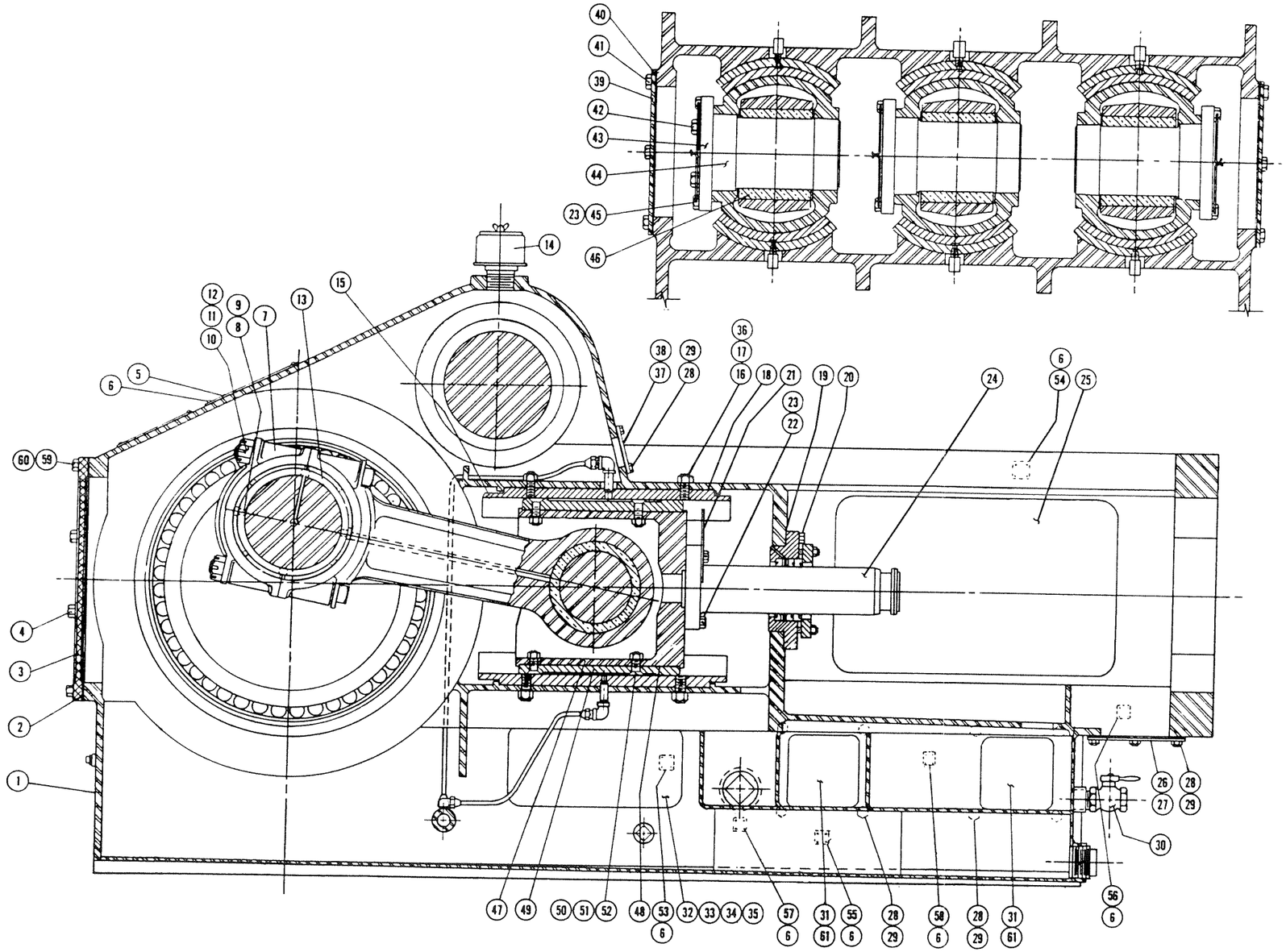
* PISTON COMPLETE INCLUDES ITEMS 1 THRU 5.

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NATIONAL - OILWELL

LINER & PISTON ASSEMBLY
A560-PT TRIPLEX PISTON PUMP

		DRAWING NO.	SIZE
		P500-H1	C



BILL OF MATERIAL			
ITEM	REQ'D	COMM NO	DESCRIPTION
1	1	10-227-010	FRAME, STUDDED (INCLS. ITEMS 59 & 60)
2	1	10-268-007	GASKET, REAR FRAME DOOR
3	1	10-228-000	DOOR, REAR FRAME
4	13	75-634-363	5/8–11 X 1-1/4 HEX HD HT CAPSCREW
5	1	10-300-240	PLATE, LUBRICATION INSTRUCTION
6	28	75-632-012	No. 2 x 1/4 DRIVE SCREW
7	3	10-200-033	CONNECTING ROD (INCLS. ITEMS 8 THRU 11)
8	6	75-555-770	1/2 x 2 DOWEL PIN
9	6	16-484-776	DOWEL, BEARING
10	12	16-247-001	BOLT, 7/8–9 X 8-3/4 SQ. HD.
11	12	75-513-112	7/8–9 SLOTTED HEAVY HEX NUT
12	12	75-103-008	5/32 x 2 COTTER
13	3	16-484-400	BEARING, CRANKPIN (2 HALVES)
14	1	64-229-100	BREATHER
–	6	10-233-003	CROSSHEAD GUIDE W/STUDS (INCLS ITEMS 15,16,17,&36)
15	6	10-233-002	GUIDE, CROSSHEAD
16	12	45-810-023	STUD, 5/8–11 X 2-1/4
17	12	75-509-014	5/8–11 x 1-3/4 TYPE "U" ELASTIC STOP NUT
18	24	10-238-006	SHIM, CROSSHEAD GUIDE
19	3	16-486-660	GASKET, DIAPHRAGM
20	12	75-634-365	5/8–11 x 1-3/4 HEX HD HT CAPSCREW
21	3	10-241-007	BAFFLE, CROSSHEAD EXTENSION
22	18	45-143-007	1/2–13 x 1-3/4 HEX HD HT CAPSCREW
23		59-800-016	16 GA. ANNEALED STL WIRE
24	3	10-241-003	ROD, CROSSHEAD EXTENSION
25	2	10-212-132	PLATE, SIDE
26	1	10-212-108	PLATE, BOTTOM
27	1	10-212-109	GASKET, BOTTOM PLATE
28	48	75-510-404	3/8–16 HEX NUT
29	48	75-770-472	3/8 EXT SHAKEPROOF LOCKWASHER
30	1	83-591-008	1" BRONZE COCK
31	3	10-212-149	PLATE, CLEAN OUT
32	2	10-212-162	PLATE, OIL SUMP
33	2	10-212-161	GASKET, SUMP PLATE
34	20	75-510-406	1/2–13 HEX NUT
35	20	75-770-474	1/2 EXT SHAKEPROOF LOCKWASHER
36	12	15-373-360	GASKET, 5/8 STUD
37	3	10-212-111	COVER, INSPECTION
38	3	10-212-112	GASKET, INSPECTION COVER
39	2	10-212-163	PLATE, SIDE FRAME
40	2	10-268-010	GASKET, SIDE FRAME PLATE
41	16	75-634-349	1/2–13 X 1" HEX HD HT CAPSCREW
42	6	45-142-603	7/8–9 X 2" DRLD HEX HD HT CAPSCREW
43	3	10-304-015	PLATE, CROSSHEAD PIN RETAINING
44	3	10-239-000	PIN, CROSSHEAD
45	12	45-143-501	5/8–11 x 2-1/4 HEX HD HT CAPSCREW
46	3	11-044-025	BEARING, CROSSHEAD PIN
–	3	10-235-004	CROSSHEAD COMPLETE (INCLS. ITEMS 47 THRU 52)
47	3	10-235-000	CROSSHEAD
48	24	10-238-008	SHIM, CROSSHEAD SHOE
49	6	10-236-001	SHOE, CROSSHEAD
50	12	75-633-196	1/2–13 x 1-1/2 FLAT HD MACHINE SCREW
51	12	75-770-474	1/2 EXT SHAKEPROOF LOCKWASHER
52	12	75-510-506	1/2–13 JAM NUT
53	1	08-727-025	PLATE, INSTRUCTION (OIL FILTER)
54	1	08-727-027	PLATE, INSTRUCTION (FLUSH SUMP CAPACITY)
55	1	08-727-028	PLATE, INSTRUCTION (FLUSH SYSTEM STRAINER)
56	1	08-727-029	PLATE, INSTRUCTION (FLUSH SYSTEM DRAIN)
57	1	08-727-030	PLATE, INSTRUCTION (SLUDGE TRAP DRAIN)
58	1	08-727-031	PLATE, INSTRUCTION (DIPSTICK)
59	1	45-803-566	STUD, 5/8–11 x 2"
60	1	75-510-310	5/8–11 HEX NUT
61	3	10-212-157	GASKET, CLEAN OUT PLATE

3

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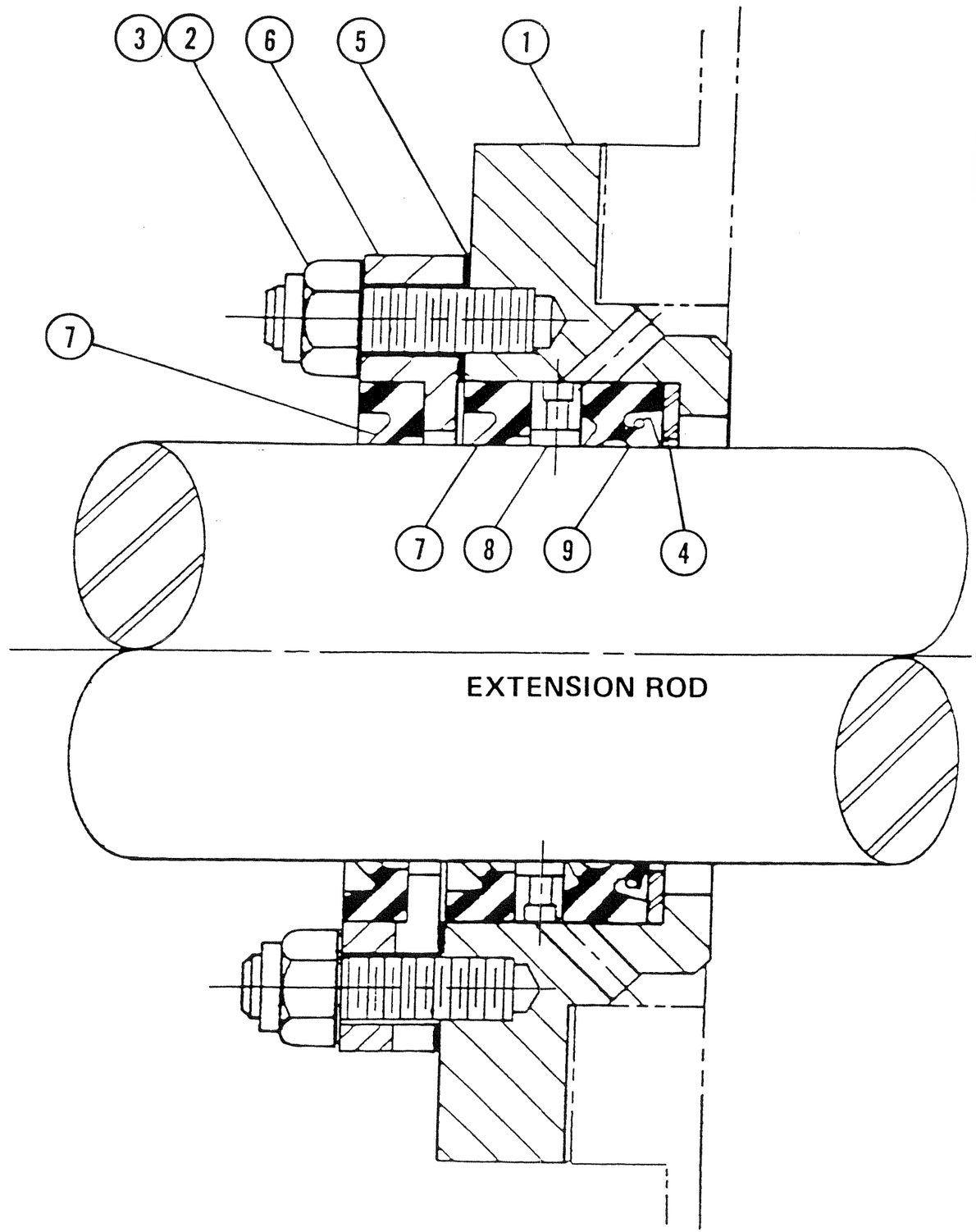
NATIONAL - OILWELL

POWER END

A560-PT TRIPLEX PISTON PUMP

DRAWING NO. **P147-AG1**

SIZE **D**



BILL OF MATERIAL			
ITEM	REQ'D	COMM NO	DESCRIPTION
1	3	16-566-005	HOUSING, DIAPHRAGM (INCLS. ITEMS 2&3)
2	12	49-002-925	STUD, 1/2–13 X 2
3	12	75-509-994	1/2–13 HEAVY HEX NUT
4	3	16-566-010	WASHER, DIAPHRAGM
5	3	16-566-008	SHIM SET
6	3	16-566-009	GLAND, DIAPHRAGM
7	6	16-566-002	RING, WIPER
8	3	16-566-012	RING, LANTERN
9	3	68-630-409	OIL SEAL

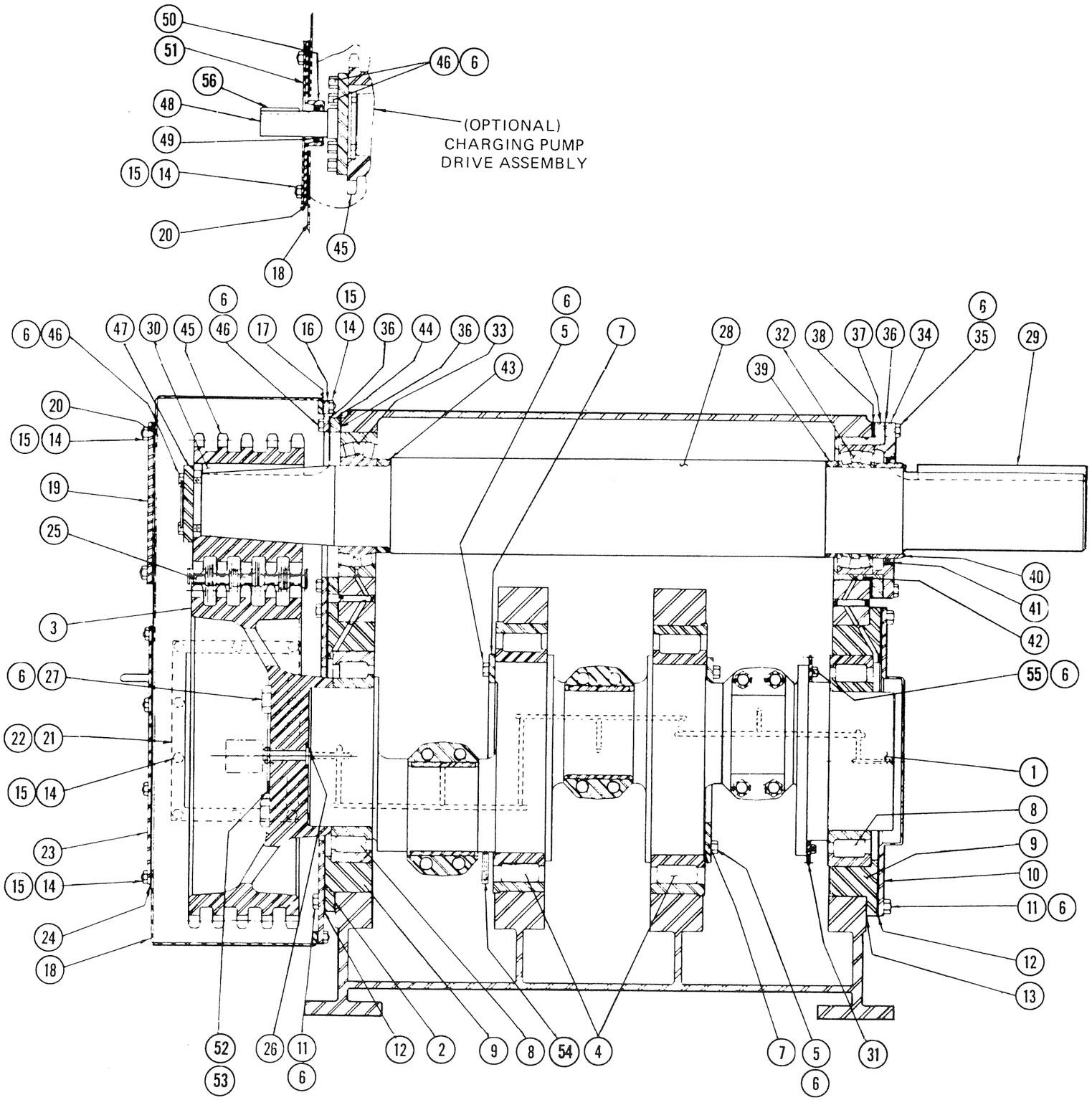
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NATIONAL - OILWELL

DIAPHRAGM ASSEMBLY
A560-PT TRIPLEX PISTON PUMP

DRAWING NO. P124-AD1

SIZE B



BILL OF MATERIAL			
ITEM	REQ'D	COMM NO	DESCRIPTION
1	1	10-242-014	CRANKSHAFT W/PLUGS
2	1	10-251-003	GASKET, MAIN BEARING
3	1	10-275-001	SPROCKET (46T–1-3/4P–5), CRANKSHAFT
4	2	65-101-982	BEARING, INTERMEDIATE
5	10	21-032-041	3/4–10 x 1-1/4 DRLD HEX HD HT CAPSCREW
6		59-800-016	16 GA. ANNEALED STL WIRE
7	2	10-242-005	RETAINER, INTERMEDIATE BEARING
8	2	65-101-974	BEARING, MAIN
9	2	10-260-002	HOUSING, MAIN BEARING
10	1	10-212-124	COVER, MAIN BEARING
11	32	45-802-524	3/4–10 x 2" DRILD HEX HD HT CAPSCREW
12	2	10-212-125	GASKET, MAIN BEARING COVER
13	1	10-251-000	SHIM SET, MAIN BEARING
14	57	75-510-404	3/8–16 HEX NUT
15	57	75-770-472	3/8 EXT SHAKEPROOF LOCKWASHER
16	1	10-273-001	PLATE, CHAIN GUARD MOUNTING
17	1	10-212-127	GASKET, CHAIN GUARD
18	1	10-272-005	GUARD, CHAIN
19	1	10-212-169	COVER, CHAIN GUARD
20	1	10-255-013	GASKET, OIL SEAL RETAINER
21	2	10-212-130	COVER, CHAIN GUARD
22	2	10-212-128	GASKET, CHAIN GUARD COVER
23	1	10-212-131	COVER, CHAIN GUARD
24	1	10-212-129	GASKET, CHAIN GUARD COVER
25	1	68-055-848	CHAIN, ROLLER (140-5) 56 PITCHES
26	1	99-607-325	"O"–RING (1-7/8 X 1-1/2 X 3/16)
27	10	45-803-792	1-1/4–8 x 3" DRLD HEX HD HT CAPSCREW
–	1	10-252-006	SPROCKET SHAFT COMPLETE (INCLS. ITEM 28 THRU 31)
28	1	10-252-005	SHAFT, SPROCKET
29	1	45-803-533	KEY (1" x 1-1/2 x 13-1/2)
30	1	45-803-027	KEY (7/8 x 1-1/4 x 8)
31	1	10-285-002	SPROCKET (96T – 1/2P – 1), OIL PUMP DRIVE
32	1	65-670-606	BEARING, MAIN
33	1	65-670-583	BEARING, MAIN
34	1	10-212-121	RETAINER, MAIN BEARING
35	6	45-802-510	5/8–11 x 2-1/2 DRLD HEX HD HT CAPSCREW
36	3	10-212-122	GASKET, MAIN BEARING RETAINER
37	1	10-259-001	HOUSING, MAIN BEARING
38	1	10-238-009	SHIM SET
39	1	10-212-119	SPACER (INNER), BEARING
40	1	10-212-118	SPACER (OUTER), BEARING
41	1	68-630-906	OIL SEAL
42	1	99-607-450	"O"–RING (11-1/4 X 11 X 1/8)
43	1	10-212-120	SPACER, BEARING (INNER–SPROCKET SIDE)
44	1	10-212-123	RING, CHAIN CASE SPACER
45	1	10-276-001	SPROCKET, DRIVE (18T–1-3/4P–5)
46	10	34-012-005	5/8–11 X 1-3/4 DRLD HEX HD HT CAPSCREW
47	1	10-255-009	RETAINER, SPROCKET
48 *	1	10-255-010	SHAFT, STUB*
49*	1	68-630-265	OIL SEAL*
50*	1	10-255-011	RETAINER, OIL SEAL*
51*	1	10-255-012	PLATE, OIL SEAL RETAINER ADJ. *
52	1	10-212-136	PLATE, INSTRUCTION
53	2	75-632-012	No. 2 x 1/4 DRIVE SCREW
54	2	10-212-135	NOZZLE, OIL SPRAY
55	6	33-007-010	5/8 –11 x 1" HEX HD HT CAPSCREW
56 *	1	45-122-307	KEY, (5/8 x 5/8 x 3")

*OPTIONAL

5

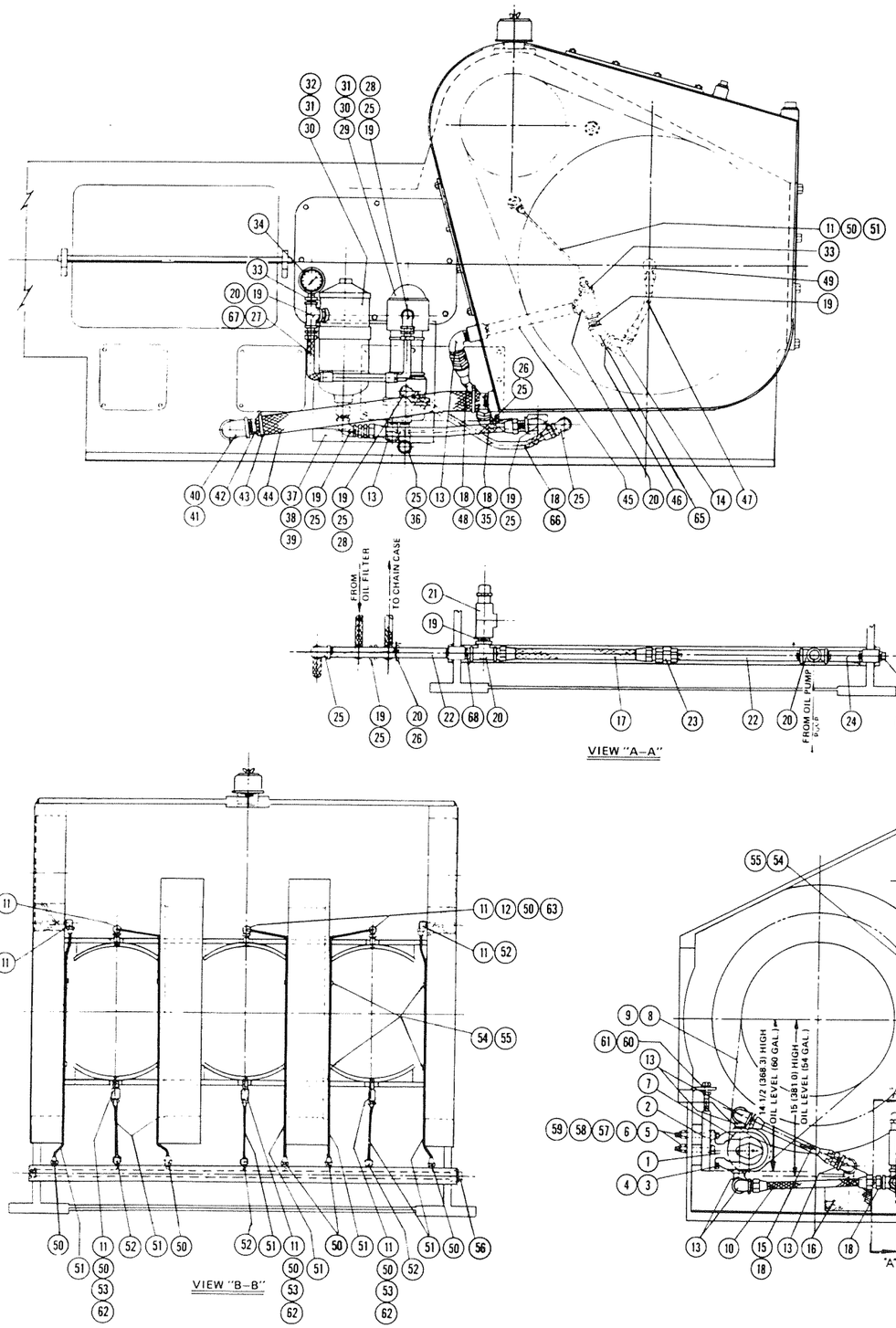
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NATIONAL - OILWELL

CRANKSHAFT ASSEMBLY
A560-PT TRIPLEX PISTON PUMP

DRAWING NO. P147-AN1

SIZE D



BILL OF MATERIAL			
ITEM	REQ'D	COMM NO	DESCRIPTION
1	1	64-182-015	OIL PUMP
2	1	10-285-039	PLATE, OIL PUMP MOUNTING
3	4	75-633-740	3/8–16 x 1-1/4 HEX HD HT CAPSCREW
4	4	75-770-472	3/8 EXT. SHAKEPROOF LOCKWASHER
5	2	75-634-418	5/8–11 x 3-1/2 HEX HD HT CAPSCREW
6	2	75-770-475	5/8 EXT SHAKEPROOF LOCKWASHER
7	1	45-803-580	SPROCKET, OIL PUMP (1/2P, 27 TEETH)
8	5'–2"	68-053-080	CHAIN, OIL PUMP DRIVE (1/2P x 124 PITCHES)
9	1	68-053-081	CONNECTING LINK F/DRIVE CHAIN
10	1	45-804-380	3/4 x 12 HOSE ASSEMBLY
11	9	10-200-063	WASHER, 3/8 CHOKE
12	3	86-336-102	1/4 x 90° 150# BLK MI ELBOW
13	8	86-342-106	3/4 x 90° 150# MI STREET ELBOW
14	1	64-289-484	UNION, 1/2 MALE ADAPTER ELL
15	1	45-804-427	3/4 x 9-1/4 HOSE ASSEMBLY
16	1	64-182-061	STRAINER, OIL
17	1	45-804-425	3/4 x 15 HOSE ASSEMBLY
18	5	64-289-324	3/4 MALE ADAPTER UNION
19	7	86-425-001	3/4 x CLOSE SCH 40 BW STL PIPE NIPPLE
20	5	86-543-106	3/4 150# MI TEE
21	1	64-182-055	RELIEF VALVE
22	2	45-001-610	3/4 x 13 SCH 40 BW STL PIPE
23	1	86-641-106	3/4 GROUND JOINT UNION
24	1	86-425-015	3/4 x 4-1/2 SCH40 BW STL PIPE NIPPLE
25	7	86-336-106	3/4 x 90° 150# BLK MI ELBOW
26	2	86-425-021	3/4 x 6 SCH 40 BW STL PIPE NIPPLE
27	1	45-804-424	3/4 HOSE ASSEMBLY W/FEMALE SWIVEL
28	2	86-061-015	3/4 x 1" CI STD BLK HEX PIPE BUSHING
29	1	64-160-310	HEAT EXCHANGER
30	8	75-634-302	1/4–20 x 3/4 HEX HD HT CAPSCREW
31	8	75-770-470	1/4 EXT SHAKEPROOF LOCKWASHER
32	1	64-212-088	OIL FILTER
33	2	86-061-008	1/4 x 3/4 CI STD BLK HEX PIPE BUSHING
34	1	78-256-532	2-1/2 OIL PRESSURE GAUGE (0–1000 #)
35	1	45-804-426	3/4 X 18 HOSE ASSEMBLY
36	1	86-425-009	3/4 x 3 SCH 40 BW STL PIPE NIPPLE
37	1	10-285-040	BRACKET, MOUNTING (FILTER & COOLER)
38	4	75-634-349	1/2–13 X 1" HEX HD HT CAPSCREW
39	4	75-770-474	1/2 EXT SHAKEPROOF LOCKWASHER
40	1	86-429-001	2 X CLOSE SCH 40 BW STL PIPE NIPPLE
41	1	86-336-116	2 X 90° 150# BW MI ELBOW
42	2	45-002-644	2 X 3-1/2 SCH 40 BW STL PIPE (THREADED ONE END)
43	2	99-092-577	HOSE CLAMP
44	1	96-101-828	2-3/8 X 24 HOSE
45	1	86-425-029	3/4 X 10 SCH 40 BW STL PIPE NIPPLE
46	1	86-061-010	1/2 X 3/4 CI STD BLK HEX PIPE BUSHING
47	1	45-804-429	1/2 X 11 HOSE ASSEMBLY
48	1	45-804-206	3/4 X 8 HOSE ASSEMBLY
49	1	06-001-857	ROTORSEAL
50	11	64-227-008	3/8T X 1/4 PT MALE COMPRESSION CONNECTOR
51		64-699-124	3/8 COPPER TUBING (.032" THK WALL)
52	5	64-227-058	3/8 T X 1/4 PT MALE COMPRSSION ELBOW
53	3	86-422-007	1/4 SCH 40 X 2-1/2 SCH 40 BW STL PIPE NIPPLE
54	10	64-228-105	3/8 TUBE CLIP
55	10	75-632-022	No. 2 X 3/8 DRIVE SCREW
56	2	86-485-106	3/4 STD BLK CI CORED PIPE PLUG
57	2	75-510-408	5/8–11 HEX NUT
58	2	75-772-205	5/8 PLAIN WASHER
59	2	99-606-360	WASHER, STAT-O-SEAL (OR EQUAL)
60	1	75-632-727	1/2–13 x 5 SQ HD DOG POINT SETSCREW
61	1	75-510-506	1/2–13 JAM NUT
62	3	57-000-002	1/4 150 MI TAPPED PIPE COUPLING
63	3	86-422-011	1/4 X 3-1/2 SCH 40 BW STL PIPE NIPPLE
64	1	45-003-152	1/2 X 7-1/2 SCH 40 BW STL PIPE NIPPLE
65	1	86-339-106	3/4 X 45° 150# MI BLK ELBOW
66	1	45-804-428	3/4 X 13-1/4 HOSE ASSEMBLY
67	2	64-271-212	3/4 HOSE ADAPTER
68	1	86-425-007	3/4 X 2-1/2 SCH 40 BW STL PIPE NIPPLE
69	1	06-109-010	GAUGE, OIL LEVEL

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ISSUE DATE: 7–1–87

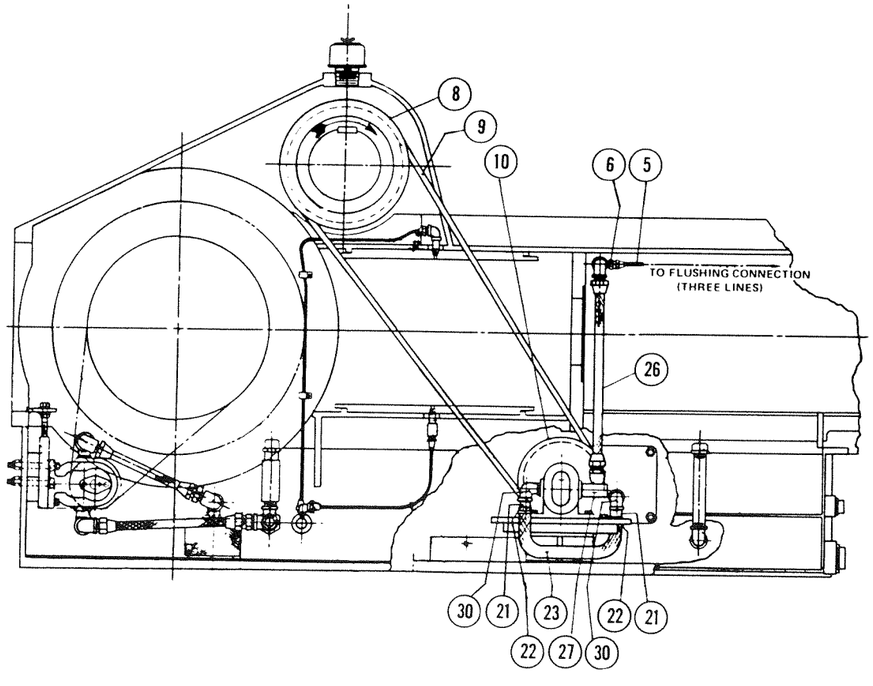
NATIONAL - OILWELL

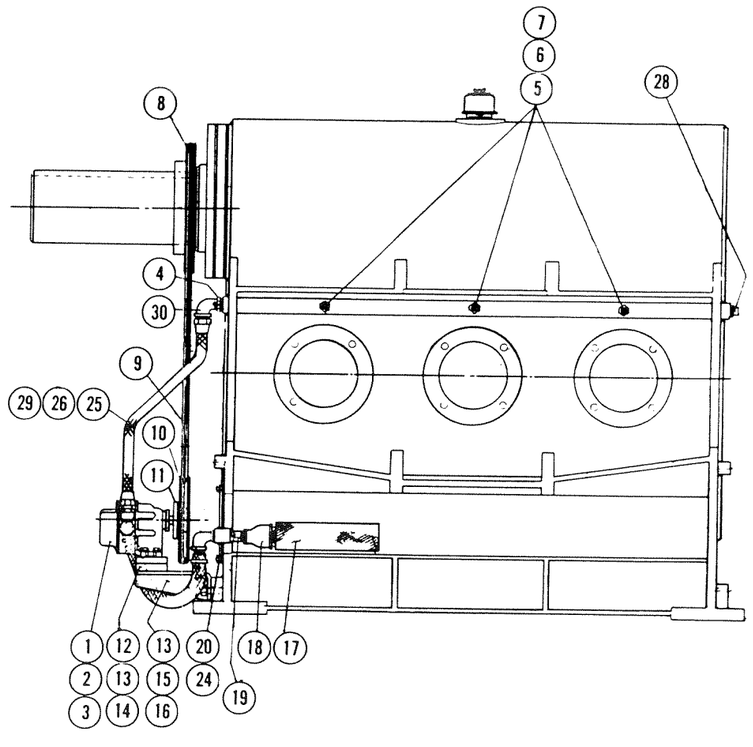
LUBRICATION SYSTEM
A560-PT TRIPLEX PISTON PUMP

DRAWING NO. **P147-AC1**

SIZE **F**

BILL OF MATERIAL			
ITEM	REQ'D	COMM NO	DESCRIPTION
1	1	64-182-008	OIL PUMP
2	4	75-770-472	3/8 EXT SHAKEPROOF LOCKWASHER
3	4	75-634-337	3/8–16 x 7/8 HEX HD HT CAPSCREW
4	1	86-061-010	1/2 X 3/4 CI STD BLK HEX PIPE BUSHING
5		64-699-124	3/8 COPPER TUBING (.032" THK WALL)
6	3	64-227-008	3/8 T X 1/4 PT MALE COMPRESSION CONNECTOR
7	3	86-061 003	1/4 X 3/8 CI STD BLK HEX PIPE BUSHING
8	1	10 285 010	SHEAVE, 10.6 P.D. 1–A SECTION DRIVING
9	1	68 020 090	A–90 V–BELT
10	1	68-640-103	7.0 P.D. 1–A GROOVE O.D. RIM
11	1	68-646-095	5/8 X 3/16 X 3/32 HUB
12	1	10-212-151	PLATE, ADJUSTING
13	4	75-634 351	1/2–13 X 1-1/4 HEX HD HT CAPSCREW
14	2	75-772-313	1/2 PLATE WASHER
15	1	10-212-154	SUPPORT, PUMP
16	4	75-770-474	1/2 EXT SHAKEPROOF LOCKWASHER
17	1	40-500-158	STRAINER, OIL
18	1	86-600-032	1/2 X 2 REDUCING COUPLING
19	1	86-424-209	1/2 X 3 SCH 40 BW STL PIPE NIPPLE
20	1	10-212-155	COVER, FLUSHING SUMP
21	2	45-001-561	1/2 X 2 SCH 40 BW STL PIPE (THREADED ONE END)
22	2	99-092-552	CLAMP, HOSE
23	1	64-289-092	7/8 X 20 HOSE
24	1	10-212-157	GASKET, SUMP COVER
25	1	64-289-320	1/2 MALE ADAPTER UNION
26	1	45-171-806	1/2 X 18-1/2 HOSE ASSEMBLY
27	1	64-289-484	MALE 90° UNION ADAPTER
28	1	86-485-106	3/4 STD BLK CI CORED PIPE PLUG
29	2	64-271-008	1/2 MALE COUPLING
30	3	86-342-104	1/2 X 90° 150# MI STREET ELBOW





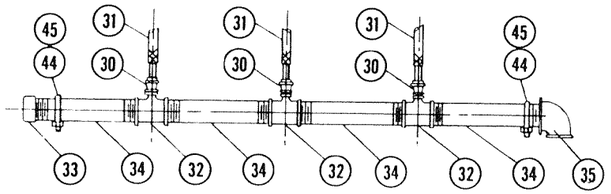
ISSUE DATE: 7–1–87

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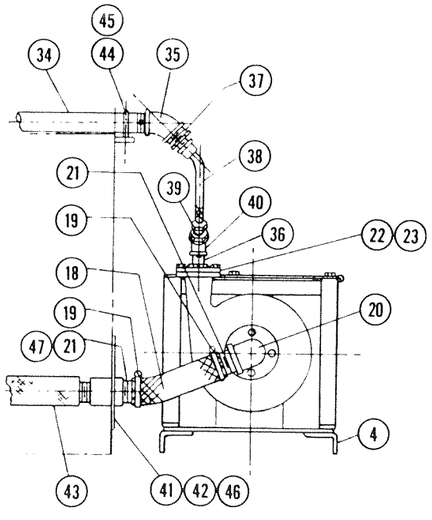
MECHANICAL LINER FLUSHING SYSTEM
A560-PT TRIPLEX PISTON PUMP

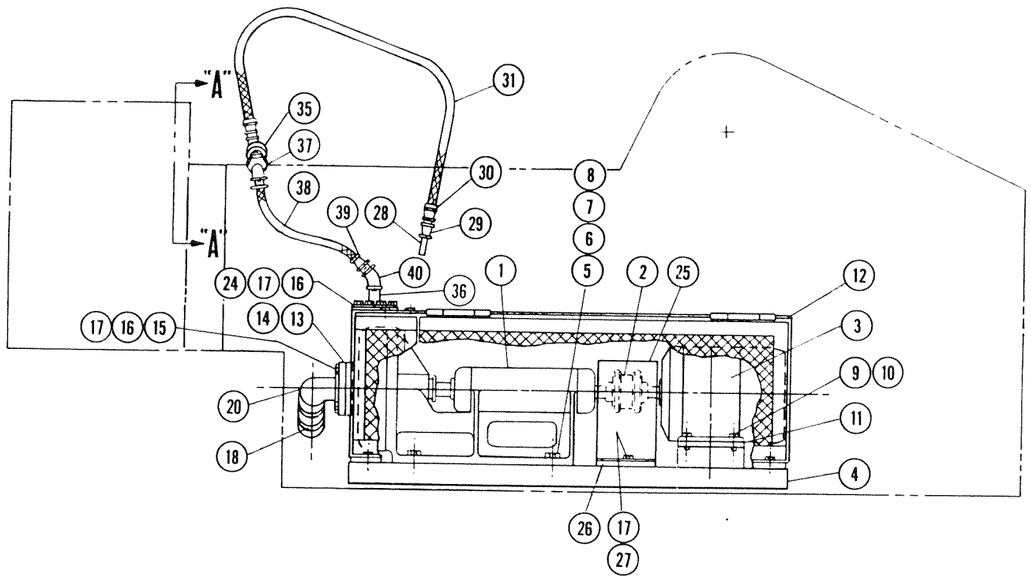
DRAWING NO. P147-AC1

SIZE F



VIEW "A-A"





BILL OF MATERIAL			
ITEM	REQ'D	COMM NO	DESCRIPTION
1	1	95-999-050	CENTRIFUGAL PUMP (1 X 1-1/2 X 8-1/2)
2	1	68-103-964	FLEXIBLE COUPLING
3*	1	60-980-826	ELECTRIC MOTOR*
4	1	10-300-305	BASE, PUMP & MOTOR
5	4	75-634-365	5/8–11 X 1-3/4 HEX HD HT CAPSCREW
6	4	75-510-408	5/8–11 HEX NUT
7	4	75-770-205	5/8 PLATE WASHER
8	4	75-770-475	5/8 EXT SHAKEPROOF LOCKWASHER
9	4	75-634-314	3/8–16 X 1" HEX HD HT CAPSCREW
10	4	75-770-472	3/8 EXT SHAKEPROOF LOCKWASHER
11	2	29-001-153	SHIM SET
12	1	10-304-044	GUARD
13	1	98-029-012	1-1/2 150#R.F. THREADED FLANGE
14	1	78-208-036	FLANGE, GASKET
15	4	75-634-353	1/2 –13 X 2 HEX HD HT CAPSCREW
16	8	75-510-406	1/2 –13 HEX NUT
17	10	75-770-474	1/2 EXT SHAKEPROOF LOCKWASHER
18	1	99-287-816	2 X 10 HOSE
19	2	99-092-574	HOSE CLAMP
20	1	86-342-112	1-1/2 X 90° 150# MI STREET ELBOW
21	2	45-003-181	1-1/2 X 3 SCH 40 BW STL PIPE NIPPLE (THREADED ONE END)
22	1	98-029-006	1" 150# R. F. THREADED FLANGE
23	1	78-208-012	FLANGE GASKET
24	4	75-634-354	1/2 –13 X 1-3/4 HEX HD HT CAPSCREW
25	1	10-300-299	GUARD, COUPLING
26	2	10-300-300	BAR, TAPPED
27	2	75-634-415	1/2–13 X 3/4 HEX HD HT CAPSCREW
28	3	86-422-005	1/4 X 2 SCH 40 BW STL PIPE NIPPLE
29	3	86-600-005	1/2 X 1/4 REDUCING COUPLING
30	6	64-289-320	1/2 MALE ADAPTER UNION
31	3	06-510-761	1/2 X 48 HOSE ASSEMBLY
32	3	86-546-456	1-1/2 X 1-1/2 x 1/2 BLK MALL REDUCING TEE
33	1	86-132-012	1-1/2 BLK MALL PIPE CAP
34	4		1-1/2 X 10-3/4 SCH 40 BW STL PIPE NIPPLE
35	1	86-339-112	1-1/2 X 45° 150# BLK MI ELBOW
36	1	86-426-009	1" X 3 SCH 40 BW STL PIPE NIPPLE
37	1	86-061-027	1-1/2 X 1" CI STD BLK HEX PIPE BUSHING
38	1	06-510-762	1" X 24 HOSE ASSEMBLY
39	1	64-289-326	1" MALE ADAPTER UNION
40	1	86-339-108	1" X 45° 150# MI ELBOW
41	1	10-212-155	COVER, FLUSHING SUMP
42	1	10-212-157	GASKET, SUMP COVER
43	1	40-500-158	STRAINER, OIL
44	2	45-804-491	5/16 – 18 U–BOLT
45	4	75-510-402	5/16–18 HEX NUT
46	4	75-510-404	3/8–16 HEX NUT

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* ELECTRIC MOTOR IS: 3 hp, 1800 rpm, 230/460 vac, 3 PHASE 60 HERTZ EXPLOSION PROOF ELECTRIC MOTOR W/FRAME 182 T.

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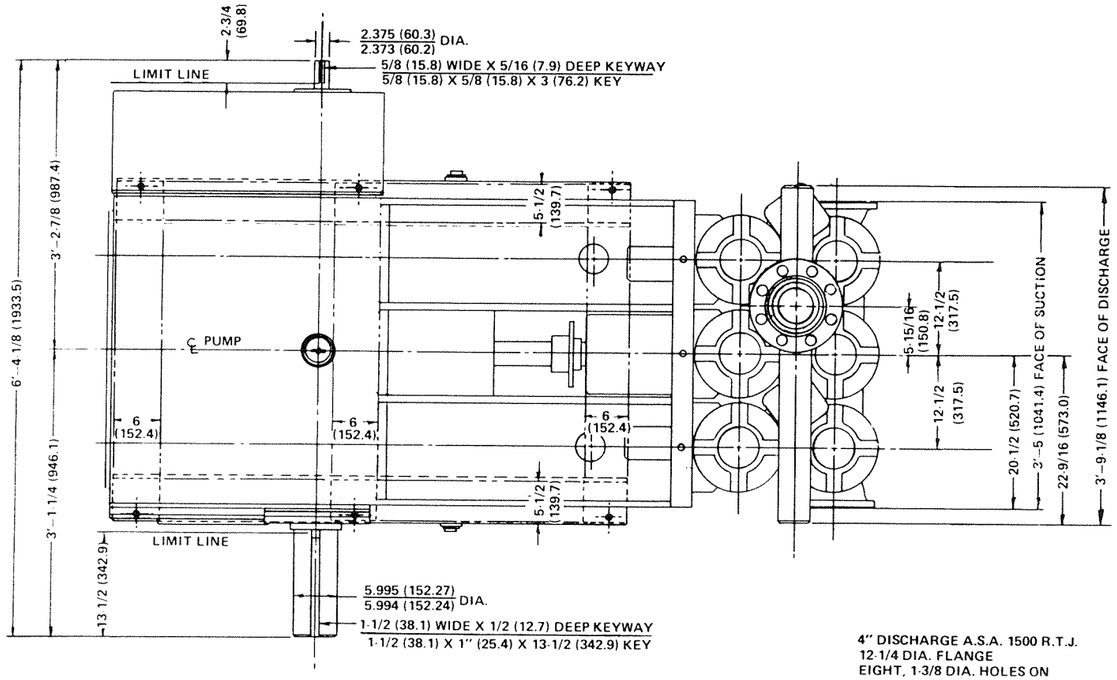
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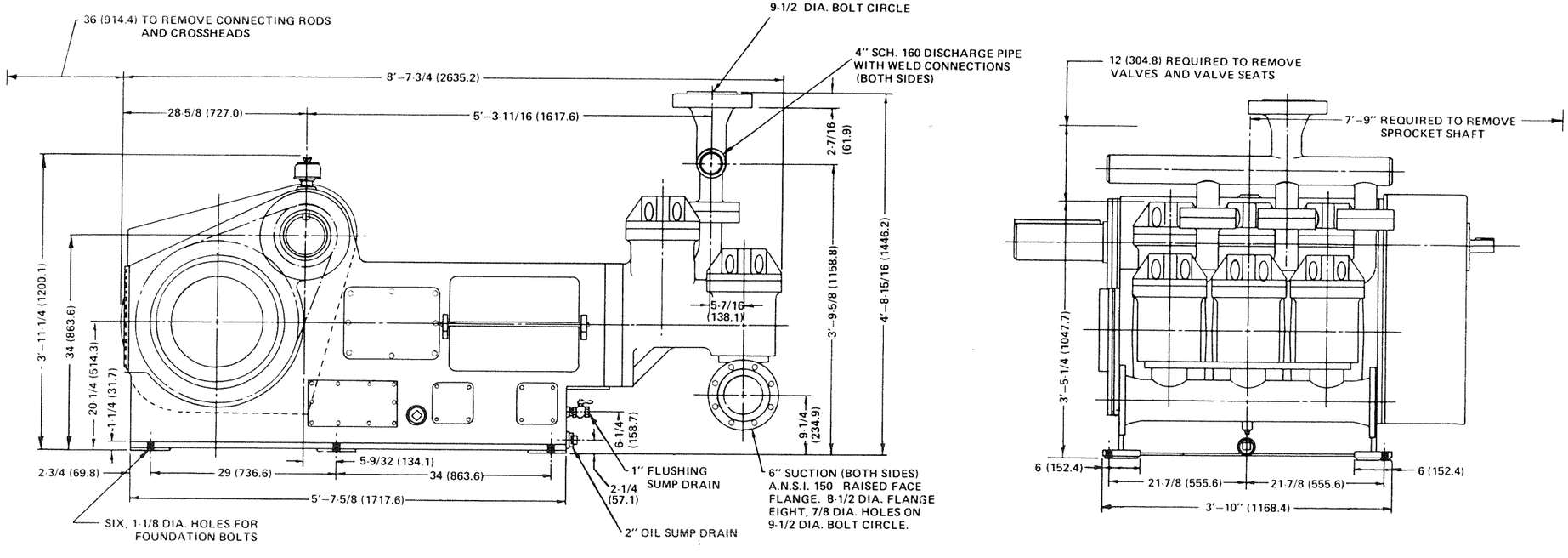
LINER FLUSHING SYSTEM
ELECTRIC MOTOR DRIVEN
A560-PT TRIPLEX PISTON PUMP

		DRAWING NO.	SIZE
		P198-AG1	C

NOTE: THESE DIMENSIONS ARE ACCURATE BUT SHOULD NOT BE USED FOR INSTALLATION UNLESS CERTIFIED. DIMENSIONS IN BRACKETS ARE MEASURED IN MILLIMETERS.

PUMP, AS SHOWN, IS FOR RIGHT HAND DRIVE. LEFT HAND DRIVE IS OPPOSITE THAT SHOWN.





ISSUE DATE: 7-1-87

NATIONAL - OILWELL

OUTLINE DRAWING
A560-PT TRIPLEX PISTON PUMP

		DRAWING NO.	SIZE
		P198-2	D