

CENTRIFUGAL PUMP SPECIFICATION
THE FLUOR CORPORATION LTD.SHEET NO. 1-1-1
REV.
DATE 8-3-56
BY CHH
CHK'D.
JOB NO. 5730P-1915 VENDOR MUST FURNISH ALL PERTINENT DATA FOR THIS SPECIFICATION SHEET BEFORE RETURNING
ITEM NO. P-1915A SERVICE Deethanizer Bottoms

NO. REQ'D.	2	MOTOR DRIVEN, AND	DRIVEN,	MFR.	Bingham Pump Company
LIQUID PUMPED	Hydrocarbons				ARRANGEMENT: (HORIZ: YES)
CORROSION OR EROSION FACTORS	0.04% H ₂ S by Wt.				PUMP SIZE & TYPE 6x8x14 L CAD : STAGES 1
OPERATING CONDITIONS					RPM 875 EFFICIENCY 77 %
PUMPING TEMP.	257	*F.	DISCHARGE	184	PSIG BHP @ RATING 4.6 MAX. BHP 5
CAPACITY @ P.T.	844	GPM	SUCTION	177	PSIG BREAK-OFF CAP./FL'D'D SUCT., COLD WATER GPM
SPEC. GR. @ P.T.	0.566		DIFFERENTIAL	7	PSI RECOMMENDED HP DRIVER
VISCOS. @ P.T.	CP	SSU	HEAD	29	FT. CONSTRUCTION
V.P. @ P.T.	188	PSIA	NPSH AVAILABLE	10	FT. CASE: SWP 200 PSIG @ 257 *F., HYDTEST. (MAX.) 300 PSIG
Boiling Liquid					MIN. THICKNESS 11/16 ". CORR. ALLOW. 1/8 "
Barometric Press. 12.85 psia					SUPPORT TYPE: (CENTERLINE) YES NO YES NO
HYDRAULIC HP 3.5 HHP					IMPELLER OVERHUNG: (Yes) YES VOLUTE: (SING) (Double)

MATERIALS		BRINNEL HARDNESS OF WEAR'G PARTS	SPLIT: ORSD (VERTICAL) YES NO
CASE: INNER			IMPELLER DIAM: SUPPLIED 12-3/8; MAX. 14 "; MIN. 12 "
OUTER	Steel		TYPE: Open End Enclosed (Single Suct., Double Suct.)
WEAR RINGS	Ni-resist		EYE AREA 33.6 SQ. IN.; EYE VEL. 8.1 FT./SEC.
STUDS AND NUTS	B-7 Alloy		DIRECTION OF ROTATION FACING PUMP COUPLING CCW (CW)
GASKETS	Asbestos		CLEARANCE (DIAM.) WEARING RINGS (Per EG-983B) 0.026
IMPELLER	Cast Iron		INTERSTG. PIECE - " : PRESS. RED. DRUM - "
WEAR RINGS	Ni-resist		SHAFT. DIAM. MAX. 3-1/4 " : AT SLEEVE 2-3/8 "
DIFFUSERS	-		AT IMP. 1-7/8 " : AT CPLG. 2-1/8 "
INTERSTG. PIECE	-		SPAN C-C BRGS. 11-5/8 " : IMP. OVERHANG 14-1/4 "
INTERSTG. BUSHING	-		COUPLING: MFR. Waldron (YES) (SPACER)
SHAFT	1140		GUARD Yes
SHAFT SLEEVES	18-8		STUFFING BOXES: BORE 3-7/8 " : DEPTH 6-1/8 "
INTERSTG. SLEEVE	-		JACKETED (YES YES) SMOTHERING GLAND (YES, NO)
STUFFING BOX	Steel		PACKING: NO. RINGS None, SIZE " SQ. " I.D.
PACKING GLAND	Steel-Bronze Bushed		MECHANICAL SEAL: MAKE & TYPE Duraseal PTO
GLAND STUDS	1140		YES NO (Throat Bush'g) YES NO (Flushed)
LANTERN RING	None		MAT'L: ROTATING FACE 304, STAT. FACE Carbon
THROAT BUSHING	Ni-resist		SEAL GASKETS Teflon
BALANCING DRUM	-		FLUSH'G OIL TO: THROAT BUSH'G: YES (NO), WEAR RING: YES (NO)
BAL. DRUM BUSHING	-		BASE PLATE TYPE Fab. Steel - Drain Rim
			FLOOR SPACE REQ'D.

BEARINGS: THRUST: TYPE: (BALL: ~~YES~~) TYPE NO. : LUBRICATORS (OIL: ~~YES~~) TYPE: Trico CAP: 4 oz.RADIAL: TYPE: (BALL: ~~YES~~) TYPE NO. : LUBRICATORS (OIL: ~~YES~~) TYPE: CAP:

MFR: SHALL SUPPLY THE FOLLOWING	DRAWING NO.	NOZZLES	SIZE	RATING	FACING	LOCATION
SERIAL NUMBER	32659-1 & -2	SUCTION	8	300	RF	Top
PERFORMANCE CURVE	15211 & 15212	DISCHARGE	6	300	RF	Top
OUTLINE DRAWING	A-19232	VENTS	3/4	IPS		
CROSS SECTION DRAWING OR BULLETIN # & PG.	ZS-2185XX	DRAINS	3/4	IPS		
NAME PLATE: Permanent metal label with Item No. & service shown above. Design GPM Diff. Head		COOLING WATER	1/2	IPS		

C.W. TO: BEAR'GS: THR: (YES; NO)	GPM	WT. OF PUMP, LESS BASE	LBS.	WITNESS PERF. TEST (YES) (NO)	CERT'D CURVE (YES) (NO)
BEAR'GS: RAD: (YES; NO)	GPM	WT. OF PUMP AND BASE	1750 LBS.	WITNESS HYD. TEST (YES) (NO)	TEST PRESS. 300 PSIG
STUFF. BOX: (YES; NO)	GPM	WT. OF DRIVER	LBS.	SUBM. TEST (YES) (NO)	SHOP INSPECTION (YES) (NO)
PEDESTAL: (YES; NO)	GPM	SHIPPING WT.	LBS.	DYNAM. BALANCING OF IMP.: (YES) (NO)	

DRIVER: SUPPLIED BY Fluor	MOUNTED BY Fluor
ELEC. MOTOR. MAKE	TURBINE. MAKE
TYPE See Motor Spec.	TYPE
SPECIAL INSULATION	H.P.
H.P. : RPM	PRESS. @ THROTTLE PSIG
VOLTS : PH. : CYC.	TEMPERATURE *F.
START: (LOW VOLTAGE; ACROSS LINE)	QUALITY OR SUPERHEAT
BEARINGS	BACK PRESS. PSIG
BEARINGS LUB.	WATER RATE LBS./H.P. HR.
REMARKS	

PLAINTIFF'S
EXHIBIT

CHV-36

CHEV BB
1000693

G PF-19-15/65-2