

# WEATHERFORD COMPRESSION SERVICES

LOCATION: JumpBush  
ELEVATION (FT): 2919  
Tc (DEG R): 386.0

ATMOS. PR. (PSIA): 13.197  
Pc (PSIA): 669.5

DATE: 03-26-2001  
AMB. TEMP (DEG F): 100

DRIVER: Waukesha  
MODEL: L5108GSI  
MAX BHP: 1122  
MAX RPM: 1200  
DRIVER LOAD (%): 94.9

COMPRESSOR: GEMINI  
MODEL: E504  
MAX BHP: 4800.0  
MAX RPM: 1500  
DESIGN RPM: 1200

STROKE (IN): 5.000  
ROD DIA (IN): 2.250  
R/L TENSION: 40000  
R/L COMPR: ~~47500~~ 40000  
PISTON SPEED (FPS): 1000

## CYLINDER DATA

CYLINDER #	1	2	3
STAGE #	1	2	3
CYL. BORE (IN)	20.000	11.000	6.250
M.A.W.P. (PSIG)	250	1000	2200
CYL. ACTION (DA/SA)	DA	DA	DA
PISTON DISPL. (ACFM)	2167.9	646.1	199.2

## PRESSURES AND TEMPERATURES

	1	2	3
INLET PRES. (PSIG)	25.0	109.7	353.0
DISCH. PRES. (PSIG)	113.0	363.7	925.0
COMP. RATIO (Pd/Ps)	3.3	3.1	2.6
Ts (DEG-F)	68	120	120
Td (ADIAB) (DEG-F)	217	270	245
Td (EST.) (DEG-F)	227	271	246

## FLOW CONDITIONS AND HORSEPOWER

	1	2	3
CAP. PER CYL. (MMSCFD)	4.69	4.69	4.69
STAGE CAP. (MMSCFD)	4.69	4.69	4.69
SP. GRAVITY (Air=1)	.689	.689	.689
K VALUE (Cp/Cv)	1.260	1.260	1.260
ZS	.993	.982	.948
ZD	.990	.978	.944
CYL. IHP (PER/CYL)	342	336	271
CYL. BHP (TOTAL)	1010		
TOTAL UNIT BHP	1010 + 56 (parasitic hp) = 1066		

## CLEARANCE DATA

	1	2	3
H.E. BASE CLR (%)	13.97	19.47	21.62
C.E. BASE CLR (%)	13.98	18.16	22.33
ADDED CLR H.E. (%)	13.5	.0	.0
ADDED CLR H.E. (IN^3)	212.5	.0	.0
PKT. TRAVEL (IN)	3.00	.00	.00
ADDED CLR C.E. (%)	.0	.0	.0
ADDED CLR C.E. (IN^3)	.0	.0	.0
H.E. VOL. EFF. (%)	48.62	65.09	69.10
C.E. VOL. EFF. (%)	70.39	66.98	68.29
VLV. VEL. INLET (FPM)	6322	6129	5977
VLV. VEL. DISCH. (FPM)	6322	6129	5977

## ROD LOADS AND REVERSALS

	1	2	3
ROD LOAD TENS. (LB)	27276	22639	14068
ROD LOAD COMPR. (LB)	27928	24626	19292
ROD LOAD. (COMBINED)	55204	47265	33360
REVERSAL (YES/NO)	YES	YES	YES

EASY SIZE VERSION #: 2.80-SE1

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