



Company: Bidell Equipment Inc.
 Quote: Q-05-026
 Remarks:

Ariel Performance

Customer: [REDACTED]
 Inquiry: E-4080-001
 Project: [REDACTED]



Compressor Data:

Elevation,ft: 2500.0
 Frame: JGJ/4
 Max RL Tot, lbf: 42000
 Rated RPM: 1800
 Calc RPM: 1800.0

Barmtr,psia: 13.400
 Stroke, in: 3.50
 Max RL Tens, lbf: 21000
 Rated BHP: 1240.0
 Calc BHP: 503

Ambient,°F: 95.00
 Rod Dia, in: 1.500
 Max RL Comp, lbf: 23000
 Rated PS FPM: 1050.0
 Calc PS FPM: 1050.0

Driver Data:

Type: Nat. Gas
 Mfg: Waukesha
 Model: H24GL/GLD
 BHP: 530
 Avail: 503 (27)

Services

Stage Data:
 Flow Req'd, MMSCFD
 Flow Calc, MMSCFD
 Cyl HP per Stage
 Specific Gravity
 Ratio of Sp Ht (N)
 Comp Suct (Zs)
 Comp Disch (Zd)
 Pres Suct Line, psig
 Pres Suct Flg, psig
 Pres Disch Flg, psig
 Pres Disch Line, psig
 Pres Ratio F/F
 Temp Suct, °F
 Temp Clr Disch, °F

Gathering

#1 --- **#2** ---
 5.000 --- 5.000 ---
 4.139 --- 4.139 ---
 270.6 --- 220.4 ---
 0.8741 --- 0.8741 ---
 1.2138 --- 1.2021 ---
 0.9821 --- 0.9690 ---
 0.9715 --- 0.9557 ---
 29.40 --- N/A ---
 29.40 --- 104.03 ---
 107.21 --- 255.27 ---
 N/A --- 250.00 ---
 2.818 --- 2.288 ---
 40.00 --- 120.00 ---
 120.00 --- 120.00 ---

Cylinder Data:

	Throw 1	Throw 3	Throw 2	Throw 4
Cyl Model	11-1/2RJ	11-1/2RJ	7-3/8RJ	7-3/8RJ
Cyl Bore, in	11.500	11.500	7.000	7.000
1 RDP (API), psig	454.5	454.5	1031.8	1031.8
1 MAWP, psig	500.0	500.0	1135.0	1135.0
Cyl Action	DBL	DBL	DBL	DBL
Cyl Disp, CFM	750.9	750.9	274.2	274.2
Pres Suct Intl, psig	23.62	23.62	96.25	96.25
Temp Suct Intl, °F	46	46	124	124
Suct Zsph	0.9827	0.9827	0.9696	0.9696
Pres Disch Intl, psig	123.12	123.12	275.26	275.26
Temp Disch Intl, °F	177	177	227	227
HE Suct Gas Vel, FPM	9917	9917	7518	7518
HE Disch Gas Vel, FPM	9111	9111	7152	7152
HE Spcrs Used/Max	0/2	0/2	0/2	0/2
HE Vol Pkt Avail, %	1.21+57.27	1.21+57.27	0.52+57.33	0.52+57.33
Vol Pkt Used, %	0.00 (V)	0.00 (V)	0.00 (V)	0.00 (V)
HE Min Clr, %	21.64	21.64	21.60	21.60
HE Total Clr, %	22.85	22.85	22.12	22.12
CE Suct Gas Vel, FPM	9748	9748	7172	7172
CE Disch Gas Vel, FPM	8956	8956	6823	6823
CE Spcrs Used/Max	0/2	0/2	0/2	0/2
CE Min Clr, %	22.40	22.40	22.79	22.79
CE Total Clr, %	22.40	22.40	22.79	22.79
Suct Vol Eff HE/CE, %	62.5/63.1	62.5/63.1	71.7/71.1	71.7/71.1
Disch Event HE/CE, ms	5.4/6.2	5.4/6.2	6.4/7.2	6.4/7.2
Suct Pseudo-Q HE/CE	9.0/8.7	9.0/8.7	6.6/6.0	6.6/6.0
Gas Rod Ld Comp, lbf	10394 C	10394 C	7081 C	7081 C
Gas Rod Ld Tens, lbf	10102 T	10102 T	6383 T	6383 T
Gas Rod Ld Total, lbf	20496	20496	13464	13464
Whd Pin Deg/%RvrsI lbf	159/78.1	159/78.1	158/76.1	158/76.1
Flow Calc, MMSCFD	2.069	2.069	2.069	2.069
1 HP	135.3	135.3	110.2	110.2

██████████
██████████