



Company: Ariel Corporation  
Order: 46364 Rev:5  
Case 1: Phase I-10MMSCFD

## Ariel Performance

Customer: OMV (Pakistan)  
P.O./Job #: 97149/07357 / 07357  
Project: Miano Wellhead Compression



7.5.7.0

### Compressor Data:

Elevation, ft: 170.0  
Frame: JGT/2  
Max RL Tot, lbf: 74000  
Rated RPM: 1500  
Calc RPM: 1200.0

Barmtr, psia: 14.605  
Stroke, in: 4.50  
Max RL Tens, lbf: 37000  
Rated BHP: 1300.0  
Calc BHP: 732

Ambient, °F: 130.00  
Rod Dia, in: 2.000  
Max RL Comp, lbf: 40000  
Rated PS FPM: 1125.0  
Calc PS FPM: 900.0

### Driver Data:

Type: Nat. Gas  
Mfg: Waukesha  
Model: F3524GSI  
BHP: 840 (815)  
Avail: 737 (78)

### Services

#### Stage Data:

	#1	#2
Flow Req'd, MMSCFD	10.000	10.000
Flow Calc, MMSCFD	10.473	10.456
Cyl BHP per Stage	413.5	310.5
Specific Gravity	0.6719	0.6719
Ratio of Sp Ht (N)	1.2908	1.3046
Comp Suct (Zs)	0.9445	0.9018
Comp Disch (Zd)	0.9478	0.9152
Pres Suct Line, psig	500.00	N/A
Pres Suct Flg, psig	485.00	954.15
Pres Disch Flg, psig	964.15	1525.15
Pres Disch Line, psig	N/A	1500.00
Pres Ratio F/F	1.959	1.589
Temp Suct, °F	140.00	140.00
Temp Clr Disch, °F	140.00	212.00

#### Cylinder Data:

	Throw 1	Throw 2
Cyl Model	9-1/4TK	5-1/2ET
Cyl Bore, in	9.250	5.500
Cyl RDP (API), psig	2181.8	1568.2
Cyl MAWP, psig	2400.0	1725.0
Cyl Action	DBL	DBL
Cyl Disp, CFM	410.2	138.7
Pres Suct Intl, psig	477.09	904.19
Temp Suct Intl, °F	144	143
Suct Zsph	0.9459	0.9035
Pres Disch Intl, psig	981.73	1596.30
Temp Disch Intl, °F	248	227
HE Suct Gas Vel, FPM	4212	7740
HE Disch Gas Vel, FPM	4056	6570
HE Spcrs Used/Max	0/4	2/2
HE Vol Pkt Avail, %	0.55+79.54	0.91+41.14
Vol Pkt Used, %	30.00 (V)	25.00 (V)
HE Min Clr, %	41.22	11.28
HE Total Clr, %	65.62	31.90
CE Suct Gas Vel, FPM	4015	6717
CE Disch Gas Vel, FPM	3866	5701
CE Spcrs Used/Max	0/4	2/2
CE Min Clr, %	44.66	13.38
CE Total Clr, %	44.66	24.25
Suct Vol Eff HE/CE, %	50.5/64.5	81.8/84.8
Disch Event HE/CE, ms	8.6/11.3	13.1/14.6
Suct Pseudo-Q HE/CE	2.0/1.8	4.4/3.3
Gas Rod Ld Comp, lbf	35442 C	19371 C
Gas Rod Ld Tens, lbf	30799 T	11393 T
Gas Rod Ld Total, lbf	66241	30764
Xhd Pin Deg/%Rvrs lbf	174/91.7	156/75.2
Flow Calc, MMSCFD	10.473	10.456
Cyl BHP	413.5	310.5



Company: Ariel Corporation  
Order: 46364 Rev:5  
7.5.7.0 Case 2: Phase I-Min Flow

## Ariel Performance

Customer: OMV (Pakistan)  
P.O./Job #: 97149/07357 / 07357  
Project: Miano Wellhead Compression



### Compressor Data:

Elevation, ft:	170.0	Barmtr, psia:	14.605	Ambient, °F:	130.00
Frame:	JGT/2	Stroke, in:	4.50	Rod Dia, in:	2.000
Max RL Tot, lbf:	74000	Max RL Tens, lbf:	37000	Max RL Comp, lbf:	40000
Rated RPM:	1500	Rated BHP:	1300.0	Rated PS FPM:	1125.0
Calc RPM:	1200.0	Calc BHP:	726	Calc PS FPM:	900.0

### Driver Data:

Type: Nat. Gas  
Mfg: Waukesha  
Model: F3524GSI  
BHP: 840 (815)  
Avail: 737 (78)

### Services

#### Stage Data:

	Service 1 #1	#2
Flow Req'd, MMSCFD	10.000	10.000
Flow Calc, MMSCFD	10.396	10.380
Cyl BHP per Stage	371.5	346.6
Specific Gravity	0.6719	0.6719
Ratio of Sp Ht (N)	1.2917	1.3027
Comp Suct (Zs)	0.9445	0.9066
Comp Disch (Zd)	0.9470	0.9206
Pres Suct Line, psig	500.00	N/A
Pres Suct Flg, psig	485.00	895.47
Pres Disch Flg, psig	905.47	1525.15
Pres Disch Line, psig	N/A	1500.00
Pres Ratio F/F	1.842	1.692
Temp Suct, °F	140.00	140.00
Temp Clr Disch, °F	140.00	212.00

#### Cylinder Data:

	Throw 1	Throw 2
Cyl Model	9-1/4TK	5-1/2ET
Cyl Bore, in	9.250	5.500
Cyl RDP (API), psig	2181.8	1568.2
Cyl MAWP, psig	2400.0	1725.0
Cyl Action	DBL	DBL
Cyl Disp, CFM	410.2	138.7
Pres Suct Intl, psig	477.09	848.81
Temp Suct Intl, °F	144	143
Suct Zsph	0.9458	0.9084
Pres Disch Intl, psig	922.25	1594.89
Temp Disch Intl, °F	238	237
HE Suct Gas Vel, FPM	4212	7740
HE Disch Gas Vel, FPM	4056	6570
HE Spcrs Used/Max	0/4	0/2
HE Vol Pkt Avail, %	0.55+79.54	0.91+41.14
Vol Pkt Used, %	50.00 (V)	0.00 (V)
HE Min Clr, %	41.22	11.28
HE Total Clr, %	81.53	12.18
CE Suct Gas Vel, FPM	4015	6717
CE Disch Gas Vel, FPM	3866	5701
CE Spcrs Used/Max	0/4	0/2
CE Min Clr, %	44.66	13.38
CE Total Clr, %	44.66	13.38
Suct Vol Eff HE/CE, %	46.3/68.0	88.7/88.2
Disch Event HE/CE, ms	8.5/11.9	13.3/14.6
Suct Pseudo-Q HE/CE	2.0/1.8	4.3/3.3
Gas Rod Ld Comp, lbf	31443 C	20484 C
Gas Rod Ld Tens, lbf	26992 T	12673 T
Gas Rod Ld Total, lbf	58435	33157
Xhd Pin Deg/%RvrsI lbf	148/92.9	157/83.6
Flow Calc, MMSCFD	10.396	10.380
Cyl BHP	371.5	346.6





Company: Ariel Corporation  
Order: 46364 Rev:5  
7.5.7.0 Case 3: Phase II

## Ariel Performance

Customer: OMV (Pakistan)  
P.O./Job #: 97149/07357 / 07357  
Project: Miano Wellhead Compression



### Compressor Data:

Elevation, ft:	170.0	Barmtr, psia:	14.605	Ambient, °F:	130.00
Frame:	JGT/2	Stroke, in:	4.50	Rod Dia, in:	2.000
Max RL Tot, lbf:	74000	Max RL Tens, lbf:	37000	Max RL Comp, lbf:	40000
Rated RPM:	1500	Rated BHP:	1300.0	Rated PS FPM:	1125.0
Calc RPM:	1200.0	Calc BHP:	410	Calc PS FPM:	900.0

### Driver Data:

Type: Nat. Gas  
Mfg: Waukesha  
Model: F3524GSI  
BHP: 840 (815)  
Avail: 737 (78)

### Services

Stage Data:	Service 1 #1	#2
Flow Req'd, MMSCFD	3.000	3.000
Flow Calc, MMSCFD	3.115	3.096
Cyl BHP per Stage	188.2	214.0
Specific Gravity	0.6730	0.6733
Ratio of Sp Ht (N)	1.2744	1.2858
Comp Suct (Zs)	0.9766	0.9420
Comp Disch (Zd)	0.9756	0.9571
Pres Suct Line, psig	200.00	N/A
Pres Suct Flg, psig	185.00	508.27
Pres Disch Flg, psig	518.27	1525.15
Pres Disch Line, psig	N/A	1500.00
Pres Ratio F/F	2.670	2.945
Temp Suct, °F	140.00	140.00
Temp Clr Disch, °F	140.00	212.00

### Cylinder Data:

	Throw 1	Throw 2
Cyl Model	9-1/4TK	5-1/2ET
Cyl Bore, in	9.250	5.500
Cyl RDP (API), psig	2181.8	1568.2
Cyl MAWP, psig	2400.0	1725.0
Cyl Action	DBL	DBL
Cyl Disp, CFM	410.2	138.7
Pres Suct Intl, psig	181.95	482.53
Temp Suct Intl, °F	146	146
Suct Zsph	0.9774	0.9440
Pres Disch Intl, psig	527.02	1584.80
Temp Disch Intl, °F	294	325
HE Suct Gas Vel, FPM	4212	7740
HE Disch Gas Vel, FPM	4056	6570
HE Spcrs Used/Max	0/4	2/2
HE Vol Pkt Avail, %	0.55+79.54	0.91+41.14
Vol Pkt Used, %	0.00 (V)	60.00 (V)
HE Min Clr, %	41.22	11.28
HE Total Clr, %	41.76	46.30
CE Suct Gas Vel, FPM	4015	6717
CE Disch Gas Vel, FPM	3866	5701
CE Spcrs Used/Max	0/4	2/2
CE Min Clr, %	44.66	13.38
CE Total Clr, %	44.66	24.25
Suct Vol Eff HE/CE, %	45.8/42.5	35.1/62.7
Disch Event HE/CE, ms	7.1/7.9	6.0/9.3
Suct Pseudo-Q HE/CE	1.9/1.8	3.9/3.1
Gas Rod Ld Comp, lbf	23779 C	27824 C
Gas Rod Ld Tens, lbf	21516 T	21125 T
Gas Rod Ld Total, lbf	45295	48949
Xhd Pin Deg/%Rvrs lbf	177/85.7	171/47.4
Flow Calc, MMSCFD	3.115	3.096
Cyl BHP	188.2	214.0



Company: Ariel Corporation  
Order: 46364 Rev:5  
7.5.7.0 Case 4: Phase II-Min Flow

## Ariel Performance

Customer: OMV (Pakistan)  
P.O./Job #: 97149/07357 / 07357  
Project: Miano Wellhead Compression



### Compressor Data:

Elevation, ft:	170.0	Barmtr, psia:	14.605	Ambient, °F:	130.00
Frame:	JGT/2	Stroke, in:	4.50	Rod Dia, in:	2.000
Max RL Tot, lbf:	74000	Max RL Tens, lbf:	37000	Max RL Comp, lbf:	40000
Rated RPM:	1500	Rated BHP:	1300.0	Rated PS FPM:	1125.0
Calc RPM:	1200.0	Calc BHP:	410	Calc PS FPM:	900.0

### Driver Data:

Type: Nat. Gas  
Mfg: Waukesha  
Model: F3524GSI  
BHP: 840 (815)  
Avail: 737 (78)

### Services

#### Stage Data:

	#1	#2
Flow Req'd, MMSCFD	3.000	3.000
Flow Calc, MMSCFD	3.115	3.096
Cyl BHP per Stage	188.2	214.0
Specific Gravity	0.6730	0.6733
Ratio of Sp Ht (N)	1.2744	1.2858
Comp Suct (Zs)	0.9766	0.9420
Comp Disch (Zd)	0.9756	0.9571
Pres Suct Line, psig	200.00	N/A
Pres Suct Flg, psig	185.00	508.27
Pres Disch Flg, psig	518.27	1525.15
Pres Disch Line, psig	N/A	1500.00
Pres Ratio F/F	2.670	2.945
Temp Suct, °F	140.00	140.00
Temp Clr Disch, °F	140.00	212.00

#### Cylinder Data:

	Throw 1	Throw 2
Cyl Model	9-1/4TK	5-1/2ET
Cyl Bore, in	9.250	5.500
Cyl RDP (API), psig	2181.8	1568.2
Cyl MAWP, psig	2400.0	1725.0
Cyl Action	DBL	DBL
Cyl Disp, CFM	410.2	138.7
Pres Suct Intl, psig	181.95	482.53
Temp Suct Intl, °F	146	146
Suct Zsph	0.9774	0.9440
Pres Disch Intl, psig	527.02	1584.80
Temp Disch Intl, °F	294	325
HE Suct Gas Vel, FPM	4212	7740
HE Disch Gas Vel, FPM	4056	6570
HE Spcrs Used/Max	0/4	2/2
HE Vol Pkt Avail, %	0.55+79.54	0.91+41.14
Vol Pkt Used, %	0.00 (V)	60.00 (V)
HE Min Clr, %	41.22	11.28
HE Total Clr, %	41.76	46.30
CE Suct Gas Vel, FPM	4015	6717
CE Disch Gas Vel, FPM	3866	5701
CE Spcrs Used/Max	0/4	2/2
CE Min Clr, %	44.66	13.38
CE Total Clr, %	44.66	24.25
Suct Vol Eff HE/CE, %	45.8/42.5	35.1/62.7
Disch Event HE/CE, ms	7.1/7.9	6.0/9.3
Suct Pseudo-Q HE/CE	1.9/1.8	3.9/3.1
Gas Rod Ld Comp, lbf	23779 C	27824 C
Gas Rod Ld Tens, lbf	21516 T	21125 T
Gas Rod Ld Total, lbf	45295	48949
Xhd Pin Deg/%RvrsI lbf	177/85.7	171/47.4
Flow Calc, MMSCFD	3.115	3.096
Cyl BHP	188.2	214.0





Company: Ariel Corporation  
Order: 46364 Rev:5  
7.5.7.0 Case 5: Phase I-10MMSCFD

## Ariel Performance

Customer: OMV (Pakistan)  
P.O./Job #: 97149/07357 / 07357  
Project: Miano Wellhead Compression



### Compressor Data:

Elevation, ft: 170.0  
Frame: JGT/2  
Max RL Tot, lbf: 74000  
Rated RPM: 1500  
Calc RPM: 1200.0  
CO2

Barmtr, psia: 14.605  
Stroke, in: 4.50  
Max RL Tens, lbf: 37000  
Rated BHP: 1300.0  
Calc BHP: 276

Ambient, °F: 130.00  
Rod Dia, in: 2.000  
Max RL Comp, lbf: 40000  
Rated PS FPM: 1125.0  
Calc PS FPM: 900.0

### Driver Data:

Type: Nat. Gas  
Mfg: Waukesha  
Model: F3524GSI  
BHP: 840 (815)  
Avail: 737 (78)

### Services

#### Stage Data:

Flow Req'd, MMSCFD  
Flow Calc, MMSCFD  
Cyl BHP 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

#### Service 1

##### #1

10.000  
*Disabled*  
0.0  
0.6720  
1.3158  
0.8848  
0.8847  
1200.00  
1185.00  
1180.00  
N/A  
0.996  
140.00  
140.00

##### #2

10.000  
14.417  
267.6  
0.6720  
1.3102  
0.8860  
0.8961  
N/A  
1168.05  
1525.15  
1500.00  
1.302  
140.00  
212.00

### Cylinder Data:

Cyl Model  
Cyl Bore, in  
Cyl RDP (API), psig  
Cyl MAWP, psig  
Cyl Action  
Cyl Disp, CFM  
Pres Suct Intl, psig  
Temp Suct Intl, °F  
Suct Zsph  
Pres Disch Intl, psig  
Temp Disch Intl, °F  
HE Suct Gas Vel, FPM  
HE Disch Gas Vel, FPM  
HE Spcrs Used/Max  
HE Vol Pkt Avail, %  
Vol Pkt Used, %  
HE Min Clr, %  
HE Total Clr, %  
CE Suct Gas Vel, FPM  
CE Disch Gas Vel, FPM  
CE Spcrs Used/Max  
CE Min Clr, %  
CE Total Clr, %  
Suct Vol Eff HE/CE, %  
Disch Event HE/CE, ms  
Suct Pseudo-Q HE/CE  
Gas Rod Ld Comp, lbf  
Gas Rod Ld Tens, lbf  
Gas Rod Ld Total, lbf  
Xhd Pin Deg/%Rvrs lbf  
Flow Calc, MMSCFD  
Cyl BHP

#### Throw 1

9-1/4TK  
9.250  
2181.8  
2400.0  
*Disabled*  
410.2  
1184.81  
140  
0.8848  
1180.27  
140  
1404  
1404  
0/4  
0.55+79.54  
0.00 (V)  
41.22  
41.76  
1338  
1338  
0/4  
44.66  
44.66  
NA/NA  
NA/NA  
NA  
NA  
NA  
149/94.8  
*Disabled*  
0.0

#### Throw 2

5-1/2ET  
5.500  
1568.2  
1725.0  
DBL  
138.7  
1105.87  
142  
0.8873  
1601.24  
196  
7740  
6570  
0/2  
0.91+41.14  
0.00 (V)  
11.28  
12.18  
6717  
5701  
0/2  
13.38  
13.38  
92.3/92.0  
16.1/17.2  
4.5/3.4  
15311 C  
6730 T  
22041  
153/83.0  
14.417  
267.6



Company: Ariel Corporation  
Order: 46364 Rev:5  
7.5.7.0 Case 6: Phase I-10MMSCFD

## Ariel Performance

Customer: OMV (Pakistan)  
P.O./Job #: 97149/07357 / 07357  
Project: Miano Wellhead Compression



### Compressor Data:

Elevation, ft: 170.0  
Frame: JGT/2  
Max RL Tot, lbf: 74000  
Rated RPM: 1500  
Calc RPM: 1200.0

Barmtr, psia: 14.605  
Stroke, in: 4.50  
Max RL Tens, lbf: 37000  
Rated BHP: 1300.0  
Calc BHP: 338

Ambient, °F: 130.00  
Rod Dia, in: 2.000  
Max RL Comp, lbf: 40000  
Rated PS FPM: 1125.0  
Calc PS FPM: 900.0

### Driver Data:

Type: Nat. Gas  
Mfg: Waukesha  
Model: F3524GSI  
BHP: 840 (815)  
Avail: 737 (78)

### Services

#### Stage Data:

	Service 1 #1	#2
Flow Req'd, MMSCFD	10.000	10.000
Flow Calc, MMSCFD	<i>Disabled</i>	11.467
Cyl BHP per Stage	0.0	330.0
Specific Gravity	0.6720	0.6720
Ratio of Sp Ht (N)	1.3134	1.3051
Comp Suct (Zs)	0.8994	0.9006
Comp Disch (Zd)	0.8993	0.9138
Pres Suct Line, psig	1000.00	N/A
Pres Suct Flg, psig	985.00	970.00
Pres Disch Flg, psig	980.00	1525.15
Pres Disch Line, psig	N/A	1500.00
Pres Ratio F/F	0.995	1.564
Temp Suct, °F	140.00	140.00
Temp Clr Disch, °F	140.00	212.00

#### Cylinder Data:

	Throw 1	Throw 2
Cyl Model	9-1/4TK	5-1/2ET
Cyl Bore, in	9.250	5.500
Cyl RDP (API), psig	2181.8	1568.2
Cyl MAWP, psig	2400.0	1725.0
Cyl Action	<i>Disabled</i>	DBL
Cyl Disp, CFM	410.2	138.7
Pres Suct Intl, psig	984.81	919.15
Temp Suct Intl, °F	140	143
Suct Zsph	0.8994	0.9023
Pres Disch Intl, psig	980.27	1596.67
Temp Disch Intl, °F	140	225
HE Suct Gas Vel, FPM	1404	7740
HE Disch Gas Vel, FPM	1404	6570
HE Spcrs Used/Max	0/4	0/2
HE Vol Pkt Avail, %	0.55+79.54	0.91+41.14
Vol Pkt Used, %	0.00 (V)	0.00 (V)
HE Min Clr, %	41.22	11.28
HE Total Clr, %	41.76	12.18
CE Suct Gas Vel, FPM	1338	6717
CE Disch Gas Vel, FPM	1338	5701
CE Spcrs Used/Max	0/4	0/2
CE Min Clr, %	44.66	13.38
CE Total Clr, %	44.66	13.38
Suct Vol Eff HE/CE, %	NA/NA	89.9/89.4
Disch Event HE/CE, ms	NA/NA	14.0/15.3
Suct Pseudo-Q HE/CE	NA/NA	4.4/3.3
Gas Rod Ld Comp, lbf	NA	19070 C
Gas Rod Ld Tens, lbf	NA	11047 T
Gas Rod Ld Total, lbf	NA	30117
Xhd Pin Deg/%Rvrs lbf	151/90.5	156/83.1
Flow Calc, MMSCFD	<i>Disabled</i>	11.467
Cyl BHP	0.0	330.0





Company: Ariel Corporation  
Order: 46364 Rev:5  
7.5.7.0 Case 7: Phase I-10MMSCFD

## Ariel Performance

Customer: OMV (Pakistan)  
P.O./Job #: 97149/07357 / 07357  
Project: Miano Wellhead Compression



### Compressor Data:

Elevation,ft: 170.0  
Frame: JGT/2  
Max RL Tot, lbf: 74000  
Rated RPM: 1500  
Calc RPM: 1200.0

Barmtr,psia: 14.605  
Stroke, in: 4.50  
Max RL Tens, lbf: 37000  
Rated BHP: 1300.0  
Calc BHP: 529

Ambient,°F: 130.00  
Rod Dia, in: 2.000  
Max RL Comp, lbf: 40000  
Rated PS FPM: 1125.0  
Calc PS FPM: 900.0

### Driver Data:

Type: Nat. Gas  
Mfg: Waukesha  
Model: F3524GSI  
BHP: 840 (815)  
Avail: 737 (78)

### Services

#### Stage Data:

	Service 1 #1	Service 2 #2
Flow Req'd, MMSCFD	10.000	10.000
Flow Calc, MMSCFD	12.435	12.433
Cyl BHP per Stage	208.4	312.1
Specific Gravity	0.6719	0.6719
Ratio of Sp Ht (N)	1.3048	1.3069
Comp Suct (Zs)	0.9160	0.8955
Comp Disch (Zd)	0.9195	0.9079
Pres Suct Line, psig	800.00	N/A
Pres Suct Flg, psig	785.00	1035.41
Pres Disch Flg, psig	1046.62	1525.15
Pres Disch Line, psig	N/A	1500.00
Pres Ratio F/F	1.327	1.466
Temp Suct, °F	140.00	140.00
Temp Clr Disch, °F	140.00	212.00

#### Cylinder Data:

	Throw 1 9-1/4TK	Throw 2 5-1/2ET
Cyl Model	9-1/4TK	5-1/2ET
Cyl Bore, in	9.250	5.500
Cyl RDP (API), psig	2181.8	1568.2
Cyl MAWP, psig	2400.0	1725.0
Cyl Action	CE(HEVR)	DBL
Cyl Disp, CFM	200.2	138.7
Pres Suct Intl, psig	772.54	980.84
Temp Suct Intl, °F	143	142
Suct Zsph	0.9175	0.8971
Pres Disch Intl, psig	1067.03	1598.21
Temp Disch Intl, °F	189	215
HE Suct Gas Vel, FPM	N/A	7740
HE Disch Gas Vel, FPM	N/A	6570
HE Spcrs Used/Max	N/A	0/2
HE Vol Pkt Avail, %	N/A	0.91+41.14
HE Vol Pkt Used, %	N/A	0.00 (V)
HE Min Clr, %	N/A	11.28
HE Total Clr, %	N/A	12.18
CE Suct Gas Vel, FPM	4015	6717
CE Disch Gas Vel, FPM	3866	5701
CE Spcrs Used/Max	0/4	0/2
CE Min Clr, %	44.66	13.38
CE Total Clr, %	44.66	13.38
Suct Vol Eff HE/CE, %	N/A/84.3	90.8/90.4
Disch Event HE/CE, ms	N/A/16.0	14.7/16.0
Suct Pseudo-Q HE/CE	N/A/1.9	4.4/3.3
Gas Rod Ld Comp, lbf	3411 C	17829 C
Gas Rod Ld Tens, lbf	15703 T	9621 T
Gas Rod Ld Total, lbf	19114	27450
Xhd Pin Deg/%Rvrs lbf	165/73.6	155/82.7
Flow Calc, MMSCFD	12.435	12.433
Cyl BHP	208.4	312.1