

# John M. Campbell & Co.

Large producing and gathering company in Raton Basin

Exclusive provider of **PetroSkills** facilities training.

4-Stage Compression Data Entry Sheet										
Conditions Before Cleaning						Conditions After Cleaning				
Process Stream	1st Stage	2nd Stage	3rd Stage	4th Stage	To Process	1st Stage	2nd Stage	3rd Stage	4th Stage	To Process
Gas Flow, MMSCFD	8.544					9.1485				
Suction Pressure, psig	4	50	162	480	1122	4.9	52	166	489	1111
Discharge Pressure, psig	50	162	480	1122		52	166	489	1111	
Suction Temperature, F	70	114	114	122	122	68	100	100	100	100
Discharge Temperature, F	318	293	312	313		311	302	303	288	
Ambient Temp, F	64					68				

Fixed Parameters	
Elevation	6025
Gas Driver Number	9
Electrical Cost, \$/kw-hr	\$ -
Fuel Gas Cost, \$/MCF	\$ 6.00
CO2 Pricing, \$/ton	\$ -
Cooler Cleaning Cost, \$	\$ 1,000
Gas Composition	
Component	Mol %
N2	0.897
CO2	1.200
H2S	0.000
C1	84.954
C2	8.230
C3	2.663
iC4	0.426
nC4	0.610
iC5	0.208
nC5	0.151
C6	0.661
C7	0.000
C8	0.000
C9	0.000
C10	0.000
<b>Total</b>	<b>100.000</b>

Gas Driver Number	Gas Driver Manufacturer	Gas Driver Model	Gas Driver Number	Gas Driver Manufacturer	Gas Driver Model
1	Caterpillar	G3406TA	22	Waukesha	H24GL
2	Caterpillar	G3408TA	23	Waukesha	L36GL
3	Caterpillar	G3412TALE	24	Waukesha	P48GL
4	Caterpillar	G3508TALE	25	Waukesha	F2895GL
5	Caterpillar	G3512TALE	26	Waukesha	F3521GL
6	Caterpillar	G3516TALE	27	Waukesha	F3524GSI
7	Caterpillar	G3606TALE	28	Waukesha	L5108GL
8	Caterpillar	G3608TALE	29	Waukesha	L5790GL
9	Caterpillar	G3612TALE	30	Waukesha	L5794GSI
10	Caterpillar	G3616TALE	31	Waukesha	L7042GL
11	Cummins	G/GTA5.9	32	Waukesha	L7044GSI
12	Cummins	G/GTA8.3	33	Waukesha	P9390GL
13	Cummins	G/GTA855	34	Waukesha	8LAT27GL
14	Cummins	KTA19	35	Waukesha	12VAT27GL
15	Dresser-Rand	412KVSR	36	Waukesha	16VAT27GL
16	Dresser-Rand	410KVR	37	Wartsila	12V34SG-CD
17	Dresser-Rand	510LAD			
18	Dresser-Rand	512KVR			
19	Dresser-Rand	612TCV			
20	Dresser-Rand	612TCVC			
21	Waukesha	F18GL			

Estimated Cooler Cleaning Results	
Power Savings, \$/month	\$ -
Fuel Savings, \$/month	\$ (1,743)
Tons CO2 Emissions Reduced/month	-65.08
\$ for Lowering CO2 Emissions/month	\$ -
*Increased Gas Flow Revenue, \$/month	\$ 16,484
<b>Total Payout of Cooler Cleaning, in days</b>	<b>2</b>
*- Assuming pipeline & plant capacity available	