

John M. Campbell & Co.

Major gathering/processing company around Ozona, TX.

Exclusive provider of **PetroSkills** facilities training.

2-Stage Compression Data Entry Sheet

Conditions Before Cleaning				Conditions After Cleaning		
Process Stream	1st Stage	2nd Stage	To Process	1st Stage	2nd Stage	To Process
Gas Flow, MMSCFD	4.8			4.8		
Suction Pressure, psig	94	300	990	90	275	990
Discharge Pressure, psig	300	990		275	990	
Suction Temperature, F	109	114	117	80	88	85
Discharge Temperature, F	238	270		216	260	
Ambient Temp, F	70			70		

Fixed Parameters	
Elevation	2374
Gas Driver No.	6
Electrical Cost, \$/kw-hr	\$ -
Fuel Gas Cost, \$/MCF	\$ 6.00
CO2 Pricing, \$/ton	\$ -
Cooler Cleaning	\$ 500
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
Total	100.000

Gas Driver Number	Gas Driver Manufacturer	Model	Gas Driver Number	Gas Driver Manufacturer	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	412KVR	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 Results of Cooler Cleaning

Power Savings, \$/month	\$ -
Fuel Savings, \$/month	\$ 739
CO2 Emissions Reduction, tons/month	27.59
\$ for Lowering CO2 Emissions/month	\$ -
*Increased Gas Flow Revenue, \$/month	\$ -
Total Payout of Cooler Cleaning, in days	21

* - Assuming pipeline & plant capacity available