

Module Setup 1019 - Big Valley GP 08-27-35-19-W4M (EI)			
Detection Number	1019	Asset Name	Big Valley GP 08-27-35-19-W4M (EI)
Client Asset #	1019	Asset Location	08-27-35-19-W4M
Asset Type	Recip	Recipient Location	
Latitude	52.030045	Elevation - fast	2769
Longitude	-112.624214	Time Zone	America/Edmonton
Area	CBM East	Field	Fenn/Big Valley
Foreman	Scott Schell		
Operator		Province/State	Alberta
Packager Name	Enerflex (Modified)	Package Serial #	03549
Package Manufacturer Date			
Noise Suppression Installed		Asset Sound Level (dB)	0
Noise Suppression Description			
Cost Center Code	4400500		
Asset Properties			
Gas Working Interest %	100	Gas Pricing - \$/mscf	2
Skid Type	Housed	Electricity Pricing - \$/kWh	0.1
Field Limitation	No	Sour Service	No
Ownership Status	Owned	Asset Application	Process
Disable HP Savings CFR Due To Bypass	No	Vibration Planes	1
Emissions			
EUB License #		Environmental Registration #	
Regulated Facility Name		Regulated Facility Type	
Facility ID (From Environment Canada)		Facility - Date of Change	
Facility Licensed NOx Emissions		Facility Licensed CO Emissions	
Facility Licenced HP			
NPRI		Provincial Identifier Type	
Provincial Identifier		Other Provincial Identifier Type	
Additional Responsible Person Name		Additional Responsible Person ID	
Additional Responsible Person Role			
Setup Date	10/24/2012	Setup Fee	Setup Fee # 2
		Analysis Fee	Analysis Fee # 1
Active Status	Surplus	Using Maintenance	Yes
Surplus Condition	Unknown		
Stand-by	No	Using SCADA	Yes
Remote Asset ID	1019		
Reason Unit is not Operating	As per D.Laye Jan 2015		

## Gas Analysis 1019 - Big Valley GP 08-27-35-19-W4M (EI)

Stream Name	Inlet Str.	Fuel Gas
Stream Type	Inlet Stream	Fuel Gas
Sample Date	02/28/2006	02/28/2006
Hydrogen	0.0000	0.0000
Helium	0.0005	0.0005
Nitrogen	0.0256	0.0256
Carbon Dioxide	0.0013	0.0013
Hydrogen Sulfide	0.0000	0.0000
Methane	0.9476	0.9476
Ethane	0.0136	0.0136
Propane	0.0067	0.0067
ISO Butane	0.0013	0.0013
Normal Butane	0.0020	0.0020
ISO Pentane	0.0003	0.0003
Normal Pentane	0.0005	0.0005
Hexane	0.0005	0.0005
Heptane	0.0001	0.0001
Octane	0.0000	0.0000
Oxygen	0.0000	0.0000
Ammonia	0.0000	0.0000
Water	0.0000	0.0000
Pseudo Critical Temperature Adjustment	0.3	0.3
Specific Gravity	0.586	0.586
Dehydrated Gas	No	Yes
Temperature Base - °F	60	60
Pressure Base - psia	14.696	14.696

Driver Setup 1019 - Big Valley GP 08-27-35-19-W4M (EI)

Manufacturer	Caterpillar	Model	G3408TA
Serial Number	6NB01271	Asset Tracking Number	
Driver Type	Turbo	Engine Manufacturer Date	
Engine Configuration	V	Number of Cylinders	8
Compression Ratio	8.5		
Rated rpm	1800	Min rpm	1400
Max Horsepower @Sea Level	400	Max Derated Horsepower	400
Min Horsepower @Sea Level	311	Min Derated Horsepower	311
Fuel Requirements - Btu/HPhr	7075	Inlet Stream LHV - Btu/cft	914.87
Engine Timing - BTDC °	24.5	Air / Fuel Ratio	9.58
Max Boost - psig	12.54	Max Engine Exhaust Temp - °F	914
Exhaust Flow - cfm	1590	Exhaust O2 %	2
Max Engine NOx - g/bhp-hr	26.22	Max Engine CO - g/bhp-hr	1.6
Max Engine CO2 - g/bhp-hr	458	Overall Exhaust dB @ 1.5m	109.9
Water Pump - HP	8	Other Auxiliary Draw - HP	0
Max Top End Overhaul Hours	15000	Max BTTM End Overhaul Hours	75000
Max Oil Change Hours	2000	Ambient Operating Temp - °F	60
Gear Ratio	1	Compressor rpm @ Rated Driver rpm	1800
Intake Valve Recession Limit	0.09	Exhaust Valve Recession Limit	0.09
Valves per Cylinder	2	Stroke Type	
Burn Type		Burn Type Date Modified	
Engine Muffler Make		Engine Muffler Model	
Engine Muffler Serial Number		Engine Coolant Type	
Catalytic Converter Installed	N/A		
Catalytic Converter Make		Catalytic Converter Model	
Catalytic Converter Serial Number		Element Installed	
Year Organization Became Responsible Person		Company Role	
If Owner, owned before 2016-06-17?		Date of ownership if on or after June 17, 2016	
Internal ID			
Requesting unique identifier?		Reason for requesting unique identifier	
Unique Alphanumeric Identifier			
Records located at facility?		Records Location	
Group Type		Group Date Start	
Emission Control Systems Type		Emission control systems type if other	
Emission control systems before or on March 31, 2020?		Emission control systems date if after March 31, 2020	
Registered Date			

Engine Flags Setup 1019 - Big Valley GP 08-27-35-19-W4M (EI)

Pressure - psig	High	High	Low	Low	Temperature - °F	High	High	Low	Low
Oil Header	95	84	37	30	Oil Header	220	210	170	140
Jacket	8	7	4	3	Jacket	223	220	160	150
Fuel Gas	25	24	21	20	Fuel Gas	140	120	70	50
Intercooler	8	7	4	3	Intercooler	147	141	127	120
Intake Manifold	55	54	52.6	26	Intake Manifold	158	150	142	110
					Exhaust Manifold	1292	977	860	774
					Aux. Water	135	130	117	100
					Cylinder Deviation	75			



Frame Setup 1019 - Big Valley GP 08-27-35-19-W4M (EI)

Manufacturer	Energy Industries	Model	FE332D-2
Serial Number	32F308	Asset Tracking Number	
Manufacturer Date Frame		Stroke - inches	3.5
Number of Throws	2	Number of Stages	2
Unloader Type	None		
Rod Load Type	Internal		
Max Compression - lbs	14500	Max Tension - lbs	14500
Total Max Rod Load - lbs	27000		
Dynamic Max Compression - lbs	14500	Dynamic Max Tension - lbs	12500
Max Overhaul Hours	25000	Max Horsepower	400
Rated rpm	1800	Min rpm	900

Cylinder Setup		1019 - Big Valley GP 08-27-35-19-W4M (EI)			
Stage	1	2			
Throw	1	2			
Cylinder Model	90	90			
Dummy Cylinder	No	No			
Cylinder Serial #	90G-1355	90G-1356			
Cylinder MAWP - psig	1750	1850			
Lube Status	Lube	Lube			
Cylinder Action	DA	DA			
Cylinder Diameter - inches	5.5	4			
Rod Diameter - inches	1.375	1.375			
Tail Rod Diameter - inches	0	0			
Associated Gas Stream	Inlet Str.	Inlet Str.			
Orifice Data					
Suct. Internal Pipe Diam. - inches	0	0			
Suct. Orifice Diam. - inches	0	0			
Disc. Internal Pipe Diam. - inches	0	0			
Disc. Orifice Diam. - inches	0	0			
Cylinder Heating/Cooling Factor		1019 - Big Valley GP 08-27-35-19-W4M (EI)			
Heating/Cooling Factor - %	0	0			
Cylinder Blowby Thresholds		1019 - Big Valley GP 08-27-35-19-W4M (EI)			
SA Severe Threshold - %	20	20			
SA Warning Threshold - %	12	12			
DA Severe Threshold - %	20	20			
DA Warning Threshold - %	12	12			
Deviation Severe Threshold - %	1000	1000			
Deviation Warning Threshold - %	10	10			

Valve Setup		1019 - Big Valley GP 08-27-35-19-W4M (EI)			
Stage	1	2			
Throw	1	2			
HE Suction Valve Resist VHDS	4.44	4.44			
HE Suction Valve Quantity	2	1			
HE Suction Valve Lift - inches	0.08	0.08			
HE Suction Valve Area - sq. in .	2.04	2.64			
HE Discharge Valve Resist VHDS	4.44	4.44			
HE Discharge Valve Quantity	2	1			
HE Discharge Valve Lift - inches	0.08	0.08			
HE Discharge Valve Area - sq. in .	1.64	2.12			
CE Suction Valve Resist VHDS	4.44	4.44			
CE Suction Valve Quantity	2	1			
CE Suction Valve Lift - inches	0.08	0.08			
CE Suction Valve Area - sq. in.	2.04	2.64			
CE Discharge Valve Resist VHDS	4.44	4.44			
CE Discharge Valve Quantity	2	1			
CE Discharge Valve Lift - inches	0.08	0.08			
CE Discharge Valve Area - sq. in .	1.64	2.12			
Suction Valve Manufacturer					
Suction Valve Model					
Suction Valve Type					
Discharge Valve Manufacturer					

Discharge Valve Model						
Discharge Valve Type						

Clearance Setup		1019 - Big Valley GP 08-27-35-19-W4M (EI)			
Stage		1	2		
Throw		1	2		
HE Clearance Min - %		16.31	21.33		
HE Clearance Max - %		95.92	117.5		
Max Pocket Travel - inches		6	6		
HE Spacers Max Quantity		0	0		
HE Clearance per Spacer - %		0	0		
CE Clearance Min - %		18.12	26.29		
CE Clearance Max - %		18.12	26.29		
CE Spacers Max Quantity		0	0		
CE Clearance per Spacer - %		0	0		

Reciprocating Setup		1019 - Big Valley GP 08-27-35-19-W4M (EI)			
Stage		1	2		
Throw		1	2		
Con. Rod Length - inches		8.375	8.375		
1/3 Con Rod Weights - lbs.		4.7	4.7		
Crosshead Pin Weight - lbs.		0	0		
Piston Weight - lbs.		38.2	24		
Rod Weight - lbs.		0	0		
Crosshead Weight - lbs.		18.17	18.17		
Balance Weight Added - lbs.		0	14.2		
Total Weight - lbs.		61.07	61.07		



**Aerial Cooler Setup 1019 - Big Valley GP 08-27-35-19-W4M (EI)**

Manufacturer	Air-X-Changer		Model	81 BEH		
Serial Number	954622		Horsepower Draw	16		
Coolant Type			Rated RPM			
Blade RPM			Blade Diameter			
Electricity Draw						
Stage	1	2				
Design Pressure MAWP - psig	1315	1650				
Required Temperature Out - °F	120	120				
Estimated Pressure Drop - psig	5	5				
Max Design Temperature - °F	300	300				
# of Passes/Section						
# of Tubes/Section						
# of Rows						
Tube O.D. - inches						
Tube Gauge						
Tube I.D. - inches						
Length of Tubes - feet						
Tube Material - feet						
Corrosion Allowance - inches						
Fouling Factor						
Ambient Air Design Temp - °F						

**Design Conditions Setup 1019 - Big Valley GP 08-27-35-19-W4M (EI)**

Stage	1	2				
PSV Setting - psig	655	1315				
Max Discharge Valve Temp - °F	300	300				
Piping/Bottles Max Temp - °F	300	300				
Discharge Piping/Bottles MAWP - psig						

**Reporting Compliance 1019 - Big Valley GP 08-27-35-19-W4M (EI)**

Set Expected Interval	No
-----------------------	----

**Linked Modules 1019 - Big Valley GP 08-27-35-19-W4M (EI)**

Links to related asset modules.

