

Module Setup 136 - Big Valley 08-27-35-19-W4M			
Detection Number	136	Asset Name	Big Valley 08-27-35-19-W4M
Client Asset #	136	Asset Location	08-27-35-19-W4M
Asset Type	Screw	Recipient Location	
Latitude	52.0318742	Elevation - fast	2765.8
Longitude	-112.6271872	Time Zone	America/Edmonton
Area	CBM East	Field	Fenn/Big Valley
Foreman	Scott Schell		
Operator		Province/State	Alberta
Packager Name		Package Serial #	
Package Manufacturer Date			
Noise Suppression Installed		Asset Sound Level (dB)	0
Noise Suppression Description			
Cost Center Code	4400454		
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	Gathering
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	10/25/2012	Setup Fee	Setup Fee # 1
		Analysis Fee	Analysis Fee # 1
Active Status	Surplus	Using Maintenance	Yes
Surplus Condition	Unknown		
Stand-by	No	Using SCADA	Yes
Remote Asset ID	136		
Reason Unit is not Operating			

## Gas Analysis 136 - Big Valley 08-27-35-19-W4M

Stream Name	Inlet Stream	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	Yes	Yes
Temperature Base - °F	60	60
Pressure Base - psia	14.696	14.696

Driver Setup 136 - Big Valley 08-27-35-19-W4M

Manufacturer	Caterpillar	Model	G3516TA
Serial Number	Unknown	Asset Tracking Number	
Driver Type	Turbo	Engine Manufacturer Date	
Engine Configuration	Unknown	Number of Cylinders	16
Compression Ratio	8		
Rated rpm	1200	Min rpm	900
Max Horsepower @Sea Level	1085	Max Derated Horsepower	1085
Min Horsepower @Sea Level	814	Min Derated Horsepower	784
Fuel Requirements - Btu/HPhr	7450	Inlet Stream LHV - Btu/cft	914.87
Engine Timing - BTDC °	33	Air / Fuel Ratio	9.58
Max Boost - psig	17.35	Max Engine Exhaust Temp - °F	842
Exhaust Flow - cfm	5949	Exhaust O2 %	8
Max Engine NOx - g/bhp-hr	2	Max Engine CO - g/bhp-hr	1.8
Max Engine CO2 - g/bhp-hr	485	Overall Exhaust dB @ 1.5m	111.6
Water Pump - HP	21.7	Other Auxiliary Draw - HP	0
Max Top End Overhaul Hours	28000	Max BTTM End Overhaul Hours	56000
Max Oil Change Hours	1250	Ambient Operating Temp - °F	60
Gear Ratio	2.431	Compressor rpm @ Rated Driver rpm	2917.2
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	No		
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 136 - Big Valley 08-27-35-19-W4M

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	210	200	180	150
Fuel Gas	47	46	2	1.5	Fuel Gas	140	120	70	50
Intercooler	8	7	4	3	Intercooler	170	161	94	77
Intake Manifold	76	75	26.4	13	Intake Manifold	167	155	82	60
					Exhaust Manifold	1238	1225	628	565
					Aux. Water	135	130	117	100
					Cylinder Deviation	75			



Manufacturer	Howden	Model	WRVi 321/1.32
Frame Type	Helical	Profile	Asymmetric
Serial Number	MK6/WRVI 321132/364	Asset Tracking Number	
Manufacturer Date Frame			
Male Rotor Diameter (m)	0.321	Vi Setting Type	Infinite
Male Rotor Length (m)	0.42372	Vi Setting Low	
Gap Size (inches)	0.003	Vi Setting Medium	
Max Frame Discharge Temperature (°F)	212	Vi Setting High	
Max Suction Pressure (psig)	101.5	Vi Setting Fixed	
Max Discharge Pressure (psig)	348	Vi Theory	Vi is Fixed
Max Compressor Speed (rpm)	3600	Configuration (Male x Female)	4 x 6
Max Compressor Overhaul Hours	35000	Balance Piston Diameter (mm)	0
Minimum Slide Valve Position -%	0	Thrust Bearings Load Rating(lbs)	0
Has Oil Pump	No	Oil Viscosity (ISO)	120
Oil Density (LB / FT <sup>3</sup> )	52	Oil Specific Heat(Btu / LB°F)	0.48
Oil Type		Oil Pump HP	
Max Coalescing Filter Differential (psig)	15	Max Oil Injection Temperature (°F)	170
Max Oil Filter Differential (psig)	10	Max Oil Discharge Temperature (°F)	210
Slide Valve Coefficients		Vi Efficiency Factors	
Constant	0	Vi	Efficiency Factors
SV <sup>1</sup>	1	1.1	1
SV <sup>2</sup>	0	2	1
SV <sup>3</sup>	0	3	1
SV <sup>4</sup>	0	4	1
SV <sup>5</sup>	0	5	1
SV <sup>6</sup>	0	6	1

**Aerial Cooler Setup 136 - Big Valley 08-27-35-19-W4M**

Manufacturer	Air-X-Changer	Model	120 EH
Serial Number	034576	Horsepower Draw	0
Coolant Type		Rated RPM	0
Blade RPM		Blade Diameter	
Electricity Draw			
Design Pressure MAWP - psig	300	Required Temperature Out - °F	120
Estimated Pressure Drop - psig	5	Max Design Temperature - °F	300
# of Passes/Section		Corrosion Allowance - inches	
# of Tubes/Section		Fouling Factor	
# of Rows		Ambient Air Design Temp - °F	
Tube O.D. - inches		Tube I.D. - inches	
Tube Gauge		Length of Tubes - feet	
Tube Material			

**Reporting Compliance 136 - Big Valley 08-27-35-19-W4M**

Set Expected Interval	No
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**Linked Modules 136 - Big Valley 08-27-35-19-W4M**

Links to related asset modules.



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