

Module Setup 1035 - Nevis North 06-11-42-23-W4M K300			
Detection Number	1035	Asset Name	Nevis North 06-11-42-23-W4M K300
Client Asset #	1035	Asset Location	06-11-42-23-W4M
Asset Type	Recip	Recipient Location	
Latitude	52.597404	Elevation - fast	2741
Longitude	-113.20781	Time Zone	Canada/Mountain
Area	CBM North	Field	North Nevis
Foreman	Scott Gamble		
Operator		Province/State	Alberta
Packager Name	Toromont	Package Serial #	1203
Package Manufacturer Date			
Noise Suppression Installed		Asset Sound Level (dB)	0
Noise Suppression Description			
Cost Center Code	3000337		
Asset Properties			
Gas Working Interest %	100	Gas Pricing - \$/mscf	2
Skid Type	Housed	Electricity Pricing - \$/kWh	0.1
Field Limitation	Yes	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	Nevis North 06-11-42-23-W4M	Regulated Facility Type	OilAndGasOther
Facility ID (From Environment Canada)	292c02c2-b1ff-4ecf-9e19-3b87374b7883	Facility - Date of Change	2016-06-17
Facility Licensed NOx Emissions		Facility Licensed CO Emissions	
Facility Licenced HP			
NPRI	19308	Provincial Identifier Type	
Provincial Identifier		Other Provincial Identifier Type	
Additional Responsible Person Name		Additional Responsible Person ID	
Additional Responsible Person Role			
Setup Date	11/5/2013	Setup Fee	Setup Fee # 2
		Analysis Fee	Analysis Fee # 1
Active Status	Active	Using Maintenance	Yes
Stand-by	No	Using SCADA	No
Remote Asset ID	1035		

Gas	MOL Fraction	Gas	MOL Fraction
Hydrogen	0	Normal Butane	0.0002
Helium	0.0003	ISO Pentane	0.0001
Nitrogen	0.0155	Normal Pentane	0
Carbon Dioxide	0.0008	Hexane	0
Hydrogen Sulfide	0	Heptane	0
Methane	0.9768	Octane	0
Ethane	0.0051	Oxygen	0
Propane	0.0009	Ammonia	0
ISO Butane	0.0003	Water	0
Total MOL Fraction	1	Pseudo Critical Temperature Adjustment	0.19
Temperature Base - °F	60	Pressure Base - psia	14.696
Stream Name	Sales Gas	Stream Type	Inlet Stream
Dehydrated Gas	No	Sample Date	07/02/2008
Sort Order	1		
Date of Entry	12/7/2010		

**Driver Setup 1035 - Nevis North 06-11-42-23-W4M K300**

Manufacturer	Waukesha	Model	L7042GSI
Serial Number	C-15148/1	Asset Tracking Number	
Driver Type	Turbo	Engine Manufacturer Date	
Engine Configuration	V	Number of Cylinders	12
Compression Ratio	8		
Rated rpm	1200	Min rpm	700
Max Horsepower @Sea Level	1478	Max Derated Horsepower	1478
Min Horsepower @Sea Level	862	Min Derated Horsepower	862
Fuel Requirements - Btu/HPhr	7821	Inlet Stream LHV - Btu/cft	900
Engine Timing - BTDC °	24	Air / Fuel Ratio	10.2
Max Boost - psig	5.38	Max Engine Exhaust Temp - °F	1125
Exhaust Flow - cfm	6967	Exhaust O2 %	1.35
Max Engine NOx - g/bhp-hr	18	Max Engine CO - g/bhp-hr	1
Max Engine CO2 - g/bhp-hr	456.36	Overall Exhaust dB @ 1.5m	105
Water Pump - HP	29.56	Other Auxiliary Draw - HP	0
Max Top End Overhaul Hours	40000	Max BTM End Overhaul Hours	80000
Max Oil Change Hours	2500	Ambient Operating Temp - °F	60
Gear Ratio	1	Compressor rpm @ Rated Driver rpm	1200
Intake Valve Recession Limit	0.06	Exhaust Valve Recession Limit	0.06
Valves per Cylinder	2	Stroke Type	FourStroke
Burn Type	RichBurn	Burn Type Date Modified	06/17/2016
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	2016	Company Role	Both
If Owner, owned before 2016-06-17?	Yes	Date of ownership if on or after June 17, 2016	
Internal ID	1035		
Requesting unique identifier?	No	Reason for requesting unique identifier	
Unique Alphanumeric Identifier			
Records located at facility?	No	Records Location	Ember Resources Calgary server
Group Type	AddedToGroup	Group Date Start	12/18/2018
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	12/18/2018		

**Engine Flags Setup 1035 - Nevis North 06-11-42-23-W4M K300**

Pressure - psig	High	High	Low	Low	Temperature - °F	High	High	Low	Low
Oil Header	75	63	35	30	Oil Header	205	195	170	140
Jacket	21.7	18	7	2.5	Jacket	200	190	170	150
Fuel Gas	65	60	40	30	Fuel Gas	140	130	-10	-20
Intercooler	21.7	18	7	2.5	Intercooler	150	137	124	110
Intake Manifold	5.9	5	4	3	Intake Manifold	160	155	130	110
					Exhaust Manifold	1235	1175	1075	970
					Aux. Water	140	130	120	100
					Cylinder Deviation	75			



Frame Setup 1035 - Nevis North 06-11-42-23-W4M K300

Manufacturer	Ariel	Model	JGK/4
Serial Number	F-20136	Asset Tracking Number	
Manufacturer Date Frame		Stroke - inches	5.5
Number of Throws	4	Number of Stages	4
Unloader Type	None		
Rod Load Type	Internal		
Max Compression - lbs	40000	Max Tension - lbs	37000
Total Max Rod Load - lbs	74000		
Dynamic Max Compression - lbs	74000	Dynamic Max Tension - lbs	74000
Max Overhaul Hours	50000	Max Horsepower	2540
Rated rpm	1200	Min rpm	600

Cylinder Setup 1035 - Nevis North 06-11-42-23-W4M K300				
Stage	1	2	3	4
Throw	3	4	2	1
Cylinder Model	26-1/2K	15-7/8K	11K	6-1/4K
Dummy Cylinder	No	No	No	No
Cylinder Serial #	C-63900	C-63901	C-63902	C-63903
Cylinder MAWP - psig	230	635	845	2050
Lube Status	Lube	Lube	Lube	Lube
Cylinder Action	DA	DA	DA	DA
Cylinder Diameter - inches	26.5	15.875	10.5	6.25
Rod Diameter - inches	2	2	2	2
Tail Rod Diameter - inches	0	0	0	0
Associated Gas Stream	Sales Gas	Sales Gas	Sales Gas	Sales Gas
Orifice Data				
Suct. Internal Pipe Diam. - inches	9.722	9.75	6.875	3.125
Suct. Orifice Diam. - inches	9.722	9.75	6.875	3.125
Disc. Internal Pipe Diam. - inches	9.722	9.75	6.875	3.125
Disc. Orifice Diam. - inches	9.722	9.75	6.875	3.125

Cylinder Heating/Cooling Factor 1035 - Nevis North 06-11-42-23-W4M K300				
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Heating/Cooling Factor - %	0	0	0	0
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Cylinder Blowby Thresholds 1035 - Nevis North 06-11-42-23-W4M K300				
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SA Severe Threshold - %	20	20	20	20
SA Warning Threshold - %	12	12	12	12
DA Severe Threshold - %	20	20	20	20
DA Warning Threshold - %	12	12	12	12
Deviation Severe Threshold - %	1000	1000	1000	1000
Deviation Warning Threshold - %	10	10	10	10

Valve Setup 1035 - Nevis North 06-11-42-23-W4M K300				
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Stage	1	2	3	4
Throw	3	4	2	1
HE Suction Valve Resist VHDS	4.44	4.44	4.44	4.44
HE Suction Valve Quantity	4	3	2	1
HE Suction Valve Lift - inches	0.102	0.102	0.102	0.102
HE Suction Valve Area - sq. in .	18.724	10.776	7.597	4.614
HE Discharge Valve Resist VHDS	4.44	4.44	4.44	4.44
HE Discharge Valve Quantity	4	3	2	1
HE Discharge Valve Lift - inches	0.102	0.102	0.102	0.094
HE Discharge Valve Area - sq. in .	18.724	10.78	7.6	4.259
CE Suction Valve Resist VHDS	4.44	4.44	4.44	4.44
CE Suction Valve Quantity	4	3	2	1
CE Suction Valve Lift - inches	0.102	0.102	0.102	0.102
CE Suction Valve Area - sq. in.	18.724	10.776	7.597	4.614
CE Discharge Valve Resist VHDS	4.44	4.44	4.44	4.44
CE Discharge Valve Quantity	4	3	2	1
CE Discharge Valve Lift - inches	0.102	0.102	0.102	0.094
CE Discharge Valve Area - sq. in .	18.724	10.78	7.6	4.259
Suction Valve Manufacturer				
Suction Valve Model				
Suction Valve Type				
Discharge Valve Manufacturer				

Discharge Valve Model						
Discharge Valve Type						

Clearance Setup		1035 - Nevis North 06-11-42-23-W4M K300			
Stage		1	2	3	4
Throw		3	4	2	1
HE Clearance Min - %		14.23	17.85	22.22	17.96
HE Clearance Max - %		70.21	66.62	69.88	57.89
Max Pocket Travel - inches		4	4	4	4.8
HE Spacers Max Quantity		0	6	4	2
HE Clearance per Spacer - %		0.1	3	3.3	5
CE Clearance Min - %		13.5	17.6	19.9	21
CE Clearance Max - %		13.5	17.6	19.9	21
CE Spacers Max Quantity		0	6	4	2
CE Clearance per Spacer - %		0.1	3.05	3.42	5.57

Reciprocating Setup		1035 - Nevis North 06-11-42-23-W4M K300			
Stage		1	2	3	4
Throw		3	4	2	1
Con. Rod Length - inches		13.75	13.75	13.75	13.75
1/3 Con Rod Weights - lbs.		30.47	30.47	30.47	30.47
Crosshead Pin Weight - lbs.		0	0	0	0
Piston Weight - lbs.		360.2	243.5	184.9	101.7
Rod Weight - lbs.		0	0	0	0
Crosshead Weight - lbs.		76.5	154.4	76.5	133.3
Balance Weight Added - lbs.		10.1	49.4	10.1	34.8
Total Weight - lbs.		477.27	477.77	301.97	300.27



**Aerial Cooler Setup 1035 - Nevis North 06-11-42-23-W4M K300**

Manufacturer	Air-X-Changer	Model	156EH
Serial Number	044206A	Horsepower Draw	59.12
Coolant Type		Rated RPM	
Blade RPM		Blade Diameter	
Electricity Draw			

Stage	1	2	3	4		
Design Pressure MAWP - psig	230	655	1315	1650		
Required Temperature Out - °F	120	120	120	120		
Estimated Pressure Drop - psig	5	5	5	5		
Max Design Temperature - °F	300	300	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 1035 - Nevis North 06-11-42-23-W4M K300**

Stage	1	2	3	4		
PSV Setting - psig	230	635	845	1440		
Max Discharge Valve Temp - °F	300	300	300	300		
Piping/Bottles Max Temp - °F	300	300	300	300		
Discharge Piping/Bottles MAWP - psig						

**Reporting Compliance 1035 - Nevis North 06-11-42-23-W4M K300**

Set Expected Interval	No
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**Linked Modules 1035 - Nevis North 06-11-42-23-W4M K300**

Links to related asset modules.

