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JEFFERSON COUNTY DEPARTMENT OF HEALTH

Site Design
Utility Design
Transportation
Environmental
Surveying
Construction Contract Administration

January 23, 2026

Ms. Kay Parker
Air Pollution Control Engineer
Jefferson County Department of Health
1400 Sixth Avenue South
Montgomery, AL 35233

Re: Warrior Met Coal Gas, LLC
East Facility
Site 29-12-03 – Unit 812005
Proposed Engine & Compressor Permitting

Dear Ms. Parker:

On behalf of Warrior Met Coal Gas, LLC (WMCG), we have prepared this notification to inform Jefferson County Department of Health (JCDH) of the proposed installation of a used reciprocating internal combustion engine (RICE) unit at well site 29-12-03. The proposed unit consists of a Caterpillar G3306NA engine with serial number 07Y04390 and includes a Gardner Denver SSQG99A screw compressor with serial number US6286.

This active well site was constructed prior to December 6, 2022. This facility has not been modified or reconstructed as defined in 40 CFR Part 60.14 and 60.5365 of Subpart OOOOb.

JCDH and ADEM air permit application forms and supporting documentation, including the new engine specifications and performance information, are attached for your use.

If there is additional information which I can provide, please advise.

Yours truly,

McGiffert AND ASSOCIATES, LLC

Q. Hansel Stewart
DDH/am

Enclosures

2814 Stillman Boulevard
Tuscaloosa, AL 35401

Post Office Box 20559
Tuscaloosa, AL 35402

Telephone 205.759.1521
Fax 205.759.1524

www.mcgiffert.com



JEFFERSON COUNTY DEPARTMENT OF HEALTH
 Environmental Health Services
 Air and Radiation Protection Division
 P.O. Box 2648, Birmingham, AL 35202 • (205) 930-1239

Permit Application for Facility Identification

Does this application contain Confidential Business Information (CBI)?
 Yes No

 Do not write in this space

Facility Information

1. Name of Facility Warrior Met Coal Gas, LLC, Site 29-12-03 - Unit 812005
 Street Address Latitude: 33.354661° Longitude -87.193458°
 City Adger State Alabama Zip 35006
 Mailing Address P.O. Box 133
 City Brookwood State Alabama Zip 35444
 Facility Phone Number (205)554-6682

Owner Information

2. Name Warrior Met Coal Gas, LLC
 Mailing Address P.O. Box 133
 City Brookwood State Alabama Zip 35444
 Telephone Number (205)554-6682
 Email Address eric.hutchens@warriormetcoal.com

Responsible Official Information

3. Name Eric Hutchens Title VP of Operations
 Mailing Address P.O. Box 133
 City Brookwood State Alabama Zip 35444
 Telephone Number (205)554-6682
 Email Address eric.hutchens@warriormetcoal.com

Plant Contact Information

4. Name Eric Hutchens Title VP of Operations
 Telephone Number (205)554-6682
 Email Address eric.hutchens@warriormetcoal.com

Billing Address

5. Attention to Warrior Met Coal Gas, LLC
 Mailing Address P.O. Box 133
 City Brookwood State Alabama Zip 35444

6. Please check the type of permit application being submitted. Check all that apply.

Existing Source - Current Permit Number (if applicable): _____

Initial Application

Major Source

Minor Source

Synthetic Minor Source

Partial Application

Permit Renewal

Modification

Major Modification

Minor Modification

New Source (To Be Constructed)

Change of:

Facility Name

Ownership

Location

Early reductions demonstrations under Section 112(i)(5) of the Act

Other (specify) _____ Install used engine and compressor unit at existing well site.

If application is being made to construct or modify, please provide the name, address, and telephone number of the installer or contractor.

Warrior Met Coal Gas, LLC

P.O. Box 133

Brookwood, Alabama 35444

Date Construction/Modification to Begin February 3, 2026 To Be Completed February 5, 2026

7. Indicate the number of each form contained in your facility's application package. If a form does not apply to your operation indicate "N/A" in the space provided.

N/A JCDH-APCP-104 – Indirect Heating or Fuel Burning Unit

N/A JCDH-APCP-105 – Manufacturing or Processing Operation

N/A JCDH-APCP-106 – Waste Disposal

1 JCDH-APCP-107 – Stationary Internal Combustion Engines

N/A JCDH-APCP-108 – Loading, Storage, & Dispensing of Organic Compounds

N/A JCDH-APCP-109 – Volatile Organic Compound (VOC) Surface Coating Emission Sources

N/A JCDH-APCP-110 – Air Pollution Control Device

N/A JCDH-APCP-111 – Coal Preparation Facility

N/A JCDH-APCP-112 – Solvent Metal Cleaning

N/A JCDH-APCP-113 – Continuous Emission Monitoring System (CEMS)

N/A JCDH-APCP-114 – Compliance Schedule

10. Indicate the compliance status for each program below that you are subject to for each emission unit or source at your facility and the method used to determine compliance. Also cite the applicable regulations.

Emission Unit or Source (describe): N/A

PROGRAM REQUIREMENT	COMPLIANCE STATUS	APPLICABLE REGULATIONS AND METHOD USED TO DETERMINE COMPLIANCE
PSD (TITLE I PART C)		
NON-ATTAINMENT NSR (TITLE I PART D)		
NSPS (40 CFR 60)		
NESHAP (40 CFR 61)		
NESHAP (40 CFR 63)		
ACCIDENTAL RELEASE (112(r), 40 CFR 68)		
TITLE I (PART B-OZONE PROTECTION)		
TITLE IV (ACID RAIN)*		
ENHANCED MONITORING (40 CFR 51, 52, 60, 61, 63, & 64)		
TITLE VI (STRATOSPHERIC OZONE)		
SIP (JCBH RULES & REGULATIONS)		
OTHER (SPECIFY):	Install used engine and compressor unit at existing well site	

*Sources subject to Title IV must complete and submit Nationally Standardized Application Forms.

12. List and discuss any exemption from the applicable requirements your facility is claiming:

- a. N/A
- b. _____
- c. _____
- d. _____
- e. _____
- f. _____
- g. _____
- h. _____

13. List the supporting documentation your facility is including as a part of this application. All supporting engineering calculations must be included.

- a. ADEM Form 107
- b. Kodiak Engine And Compressor Pedigree Sheet (Dated 10/22/2025)
- c. Gas Engine Site Specific Technical Data Sheet
- d. Emissions Calculations
- e. Remote Area Map
- f. Facility Site Map
- g. _____
- h. _____

14. Attach a facility plot plan including building dimensions & fence locations. Stack data, including latitude, longitude, grade elevation (in feet above mean sea level), stack height and orientation, and flow barriers should be provided.

I certify under penalty of law that, based on information and belief formed after reasonable inquiry, the statements and information contained in this application are true, accurate, and complete.

I also certify that the source will continue to comply with applicable requirements for which it is in compliance, and that the source will, in a timely manner, meet all applicable requirements that will become effective during the permit term and submit a detailed schedule, if needed, for meeting the requirements.

Signature of Responsible Official



Date

1/23/26



ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
AIR DIVISION

□ □ □ - □ □ □ □ - □ □ □ □

Do not write in this space

1. Name of facility or organization: Warrior Met Coal Gas, LLC, Site 29-12-03 - Unit 812005

2. Purpose of Application:
 Initial installation of a new engine (i.e. engine that has never been in service at any location)
 Initial installation of a used engine (i.e. engine that has been in service at another location)
 Modification/Reconstruction of an engine currently installed at the facility
 Update information for an engine currently installed at the facility
 Title V Application
 Other, specify: Install used engine and compressor unit at existing well site.
If this application is for the installation, modification, or reconstruction of an engine, please provide the date construction is scheduled to begin: Desired - 02/03/26
If this application is for an engine currently installed at this facility, please provide the date that the engine was initially installed at this facility: N/A

3. Engine Identification:
A. Manufacturer Name: Caterpillar B. Model No.: G3306NA C. Model Year: 1993
D. Facility's Identification or Description: Site 29-12-03 - Unit 812005 E. Serial No.: 07Y04390

4. Engine Applicability Dates:
A. Date Ordered (New): N/A B. Date Manufactured: 03/26/1993 C. Date Modified/Reconstructed N/A
D. For a used engine, approximate date engine was first put in service at any location: ±1993

5. Engine Function:
 Compression Electrical Generation (Max Output):
 NFPA Certified Fire/Other Pump Driver
 Test Cell/Stand Other, please describe:
 Research & Development

6. Engine Operation:
 Non-Emergency (provide typical operating schedule in A-D): A. Hours/day: 24
 Emergency Only B. Days/week: 7
 Limited Use (<100 hr/yr) C. Weeks/year: 52
D. Peak Season (if any): N/A

7. Engine Specifications:
A. Max Brake Horsepower (bhp): 145 B. Max Engine Power (kWm): 108.126 C. Max Heat Input (MMBtu/hr): 0.3639
D. Type: Simple Cycle Turbine Combined Cycle Turbine Regenerative Cycle Turbine Reciprocating Engine
E. Piston Movement: 2-Stroke RICE 4-Stroke RICE N/A Other:
F. Air/Fuel Mix: Rich Burn Rice Lean Burn RICE Diffusion Flame Turbine Lean Premix Turbine Other:
G. Ignition Type Spark Compression N/A
H. Cylinder Displacement: 1.75 (Liters/cylinder)

8. Compressor Specifications:

A. Compressor Type Screw B. Compressor Mfg. Date August 2022 C. Location on well? Yes No
 D. Compressor Instal. Date: 2022 E. Compressor Serial No.: US6286 F. Compressor Brake Horsepower (bhp): 245

9. Fuel Information:

	Fuel Type/ Desc.	Heat Content	Sulfur Content (% by weight or ppm)	Fuel-Bound Nitrogen Content (% by weight or ppm)	% of Gross Heat Input	Max Ash %	Used Oil Supplier
Primary	Natural Gas	N/A	Neg	<2%	100	N/A	N/A
Secondary/ Backup							

10. Point Source Emissions:

POLLUTANT	UNCONTROLLED ¹ POTENTIAL EMISSIONS		CONTROLLED ² POTENTIAL EMISSIONS		BASIS OF CALCULATION	REGULATORY EMISSION LIMIT Provide in lb/hr or specify alternative Unit of Measure
	lb/hr	ton/yr	lb/hr	ton/yr		
Total Particulate	N/A	N/A	N/A	N/A	N/A	
PM-10 Filterable	0.0000	0.0001	N/A	N/A	AP-42	
PM-2.5 Filterable	0.0000	0.0001	N/A	N/A	AP-42	
PM-Condensable	0.0032	0.0139	N/A	N/A	AP-42	
Sulfur dioxide	N/A	N/A	N/A	N/A	N/A	
Nitrogen oxides	4.30	18.82	N/A	N/A	MFR	
Carbon monoxide	4.30	18.82	N/A	N/A	MFR	
VOC's	0.070	0.308	N/A	N/A	MFR	

Attach calculation worksheets. Manufacturer specification sheets should be provided if used as the basis for emission estimates. Particulate emissions should be speciated to include PM10-filterable, PM2.5-filterable, and PM-condensable. Speciated HAP emissions should also be provided. Attach additional page(s) as necessary.

11. Applicable Regulations:

- | | |
|--|---|
| <input type="checkbox"/> 40 CFR 63, Subpart YYYY, NESHAP for Stat. Combustion Turbines | <input checked="" type="checkbox"/> 40 CFR 63, Subpart ZZZZ, NESHAP for Stat. RICE |
| <input type="checkbox"/> 40 CFR 60, Subpart GG, NSPS for Stationary Gas Turbines | <input type="checkbox"/> 40 CFR 60, Subpart IIII, NSPS for Stat. Compression Ignition ICE |
| <input type="checkbox"/> 40 CFR 60, Subpart KKKK, NSPS for Stat. Combustion Turbines | <input type="checkbox"/> 40 CFR 60, Subpart JJJJ, NSPS for Stat. Spark Ignition ICE |
| <input type="checkbox"/> 40 CFR 60, Subpart OOOO/OOOOa | <input type="checkbox"/> Other: _____ |

Does this unit have an EPA Certificate of Conformity? Yes No if yes, please provide: _____

12. Regulatory Standards, Limitations, and Requirements:

Pollutant/Parameter	Rate/Value	Units of Standard	Regulatory Basis ³	Engine Potential Emission Rate (in units of standard)
<i>Example: NOx + NMHC</i>	6.4	<i>g/kW-hr</i>	<i>NSPS, Subpart IIII</i>	<i>4.95 g/kW-hr</i>
<i>Example: Annual Operation</i>	6,000	<i>hr/yr</i>	<i>SMS-PSD</i>	<i>NA</i>
PM - Cond	0.0032	lb/hr	N/A	N/A
SOx	N/A	lb/hr	N/A	N/A
NOx	4.30	lb/hr	N/A	N/A
CO	4.30	lb/hr	N/A	N/A
VOC (NMNEHC)	0.070	lb/hr	N/A	N/A
HAPS (total)	0.10	lb/hr	N/A	N/A

3. for federal regulations, specify which NSPS or NESHAP is the basis. If a synthetic minor limit, specify either SMS-PSD or SMS- Title V

B. For engines subject to emission standards under NSPS, Subpart IIII or NSPS, Subpart JJJJ, is this engine certified by the manufacturer pursuant to the applicable regulation to meet the applicable emission standards? N/A Yes No

(if yes, provide a copy of the certification)

C. For emergency or limited use engines, is this engine equipped with a non-resettable hour meter? Yes No

13. Pollution Control Information:

A. Device/Technology Type(s)

- No Controls
- Air-to-Fuel Ratio Controller
- Water or Steam Injection
- Low NOX Burners
- Oxidation Catalyst
- Selective Non-catalytic Reduction(SNCR)
- Non-selective Catalytic Reduction (NSCR/3-way Catalyst)
- Selective Catalytic Reduction (SCR)
- Diesel Particulate Filter
- Other _____
- Other _____

B. Control Efficiencies

Pollutant	% Reduction
NO _x	
CO	
VOC	
Formaldehyde	

C. Operational Parameters (if any):

14. Compliance Status:

Is this item in compliance with all applicable air pollution rules and regulations?

Yes No (if "no", a compliance schedule, ADEM Form 437, must be attached.)

15. Stack Parameters (if a control device is installed, the information should be for the control device's stack exit)

Emission Point & Description: Warrior Met Coal Gas, LLC Site 29-12-03 - Unit 812005 Stack Type: Vertical

Stack UTM Coordinate (E-W)	<u>482000.60</u> (km)	Stack UTM Coordinate (N-S)	<u>3690622.52</u> (km)
Latitude	<u>33.354661°</u> (LAT)	Longitude	<u>-87.193458°</u> (LONG)
Height above grade	<u>9</u> (ft)	Gas temperature at exit	<u>1101</u> (°F)
Inside diameter at exit (round)	<u>0.323</u> (ft)	Gas Velocity	<u>N/A</u> (ft/Sec)
Inside area at exit (not round)	<u>N/A</u> (ft ²)	Volume of gas discharged	<u>678</u> (ACFM)
Base Elevation	<u>655(Google)</u> (ft)	GEP Stack Height	<u>9</u> (ft)

Are sampling ports available? (If "yes", describe. Draw on separate sheet if necessary) Yes No :

Is this a merged stack (do multiple units use this release point)? Yes No

If yes, provide units: N/A

16. Clarifying/Supplemental Information (Optional):

The emissions information for the engine has been provided and is attached.

This engine was manufactured prior to August 23, 2011 and not subject to 40 CFR 60 Subpart OOOO.

This engine was manufactured prior to September 15, 2015 and is not subject to 40 CFR 60 Subpart OOOOa.

This facility was constructed prior to December 6, 2022 and has not been modified or reconstructed as defined in 40 CFR Part 60 Subpart OOOOb.


This engine was manufactured prior to July 1, 2008 and has not been modified or reconstructed and is not subject to 40 CFR 60 Subpart JJJJ.

This engine is subject to 40 CFR 63 Subpart ZZZZ and regular maintenance requirements are performed.

There is no glycol dehydration unit on-site.

Name of person preparing application: Q. Hansel Stewart, PE

Company of preparer McGiffert and Associates, LLC

Signature:  Date: 1/23/26



To: Billy Johnson / Unit 812005

RE: Pedigree

Date: 10.22.25

Service Order Number:	
Service Site Name:	
Kodiak Unit Number:	812005
Driver Make & Model:	3306NA
Driver Serial Number:	07Y04390
Driver Type:	4SLB
Driver Category:	
OEM Rated Driver Horsepower:	145HP
Driver Manufacture Date:	3/26/1993
“New” Engine Subject to NSPS JJJJ?	No
Engine Displacement:	10.5L
Driver RPM:	1800
Fuel Type:	Natural Gas
Engine Certification:	None
Compressor Make	Gardner Denver
Compressor Model	SSQG99A
Compressor Serial Number	US6286
Compressor Type	Screw
Compressor Category	Existing
Compressor Stages	S
Compressor NSPS Status	Exempt
Compressor Speed	2695
OEM Rated Compressor HP	245
Compressor Mfr. Date	Rebuilt 8-2022

Reconstruction Status: Since the date of manufacture noted above, this engine has not been modified per 40 CFR 60.14, or reconstructed per 40 CFR 60.15.

Please contact Dustin Burk with any questions regarding this information at dustin.burk@kodiakgas.com

NOTE: UNIT SPECIFICATIONS AND NUMBERS LISTED IN THIS DATA SHEET ARE USED FOR REFERENCE PURPOSES ONLY IN ORDER TO OBTAIN ANY PERMITS REQUIRED FOR PROVISION OF THE COMPRESSION SERVICES AT THE SERVICE SITE. NOTWITHSTANDING THE FOREGOING, THE LISTING OF THE UNIT SPECIFICATIONS AND NUMBERS ON THIS DATA SHEET SHALL NOT BE CONSTRUED AS LIMITING IN ANY WAY CONTRACTOR’S CONTRACTUAL RIGHT TO FREELY SUBSTITUTE THE UNIT BEING USED TO PROVIDE COMPRESSION AND RELATED PRODUCTION ENHANCEMENT SERVICES UNDER THE MASTER AGREEMENT AND THE APPLICABLE SERVICE ORDER AT ANY TIME, IN ITS SOLE DISCRETION, AND WITHOUT NOTICE, SO LONG AS SUCH SUBSTITUTION DOES NOT UNREASONABLY INTERFERE WITH THE PROVISION OF SUCH SERVICES OR CUSTOMER’S OPERATIONS AT THE SITE. UPON ANY SUBSTITUTION OR REPLACEMENT OF ANY UNIT USED FOR THE PROVISION OF THE COMPRESSION SERVICES, CONTRACTOR SHALL PROVIDE CUSTOMER WITH A NEW DATA SHEET REFLECTING THE APPLICABLE UNIT SPECIFICATIONS AND NUMBERS.

G3306

NON-CURRENT

GAS COMPRESSION APPLICATION

GAS ENGINE SITE SPECIFIC TECHNICAL DATA



ENGINE SPEED (rpm): 1800
 COMPRESSION RATIO: 10.5
 JACKET WATER OUTLET (°F): 210
 ASPIRATION: NA
 COOLING SYSTEM: JW+OC
 CONTROL SYSTEM: MAG
 EXHAUST MANIFOLD: WC
 COMBUSTION: CATALYST SETTING
 EXHAUST OXYGEN (% O2): 0.5
 SET POINT TIMING: 30

RATING STRATEGY: STANDARD
 RATING LEVEL: CONTINUOUS
 FUEL SYSTEM: LPG IMPCO
 WITH CUSTOMER SUPPLIED AIR FUEL RATIO CONTROL

SITE CONDITIONS:
 FUEL: GS 32-13-25
 FUEL PRESSURE RANGE(psig): (See note 1) 1.5-10.0
 FUEL METHANE NUMBER: 99.7
 FUEL LHV (Btu/scf): 884
 ALTITUDE(ft): 500
 INLET AIR TEMPERATURE(°F): 77
 STANDARD RATED POWER: 145 bhp@1800rpm

RATING	NOTES	LOAD	SITE RATING AT MAXIMUM INLET AIR TEMPERATURE			
			100%	100%	75%	50%
ENGINE POWER (WITHOUT FAN)	(2)	bhp	145	145	109	72
INLET AIR TEMPERATURE		°F	77	77	77	77

ENGINE DATA						
FUEL CONSUMPTION (LHV)	(3)	Btu/bhp-hr	7775	7775	8328	9513
FUEL CONSUMPTION (HHV)	(3)	Btu/bhp-hr	8634	8634	9248	10564
AIR FLOW (@Inlet air temp, 14.7 psia)	(WET) (4)(5)	ft3/min	208	208	167	125
AIR FLOW	(WET) (4)(5)	lb/hr	922	922	738	556
FUEL FLOW (60°F, 14.7 psia)		scfm	21	21	17	13
INLET MANIFOLD PRESSURE	(6)	in Hg(abs)	26.2	26.2	21.8	17.6
EXHAUST TEMPERATURE - ENGINE OUTLET	(7)	°F	1101	1101	1067	1037
EXHAUST GAS FLOW (@engine outlet temp, 14.5 psia)	(WET) (8)(5)	ft3/min	678	678	532	393
EXHAUST GAS MASS FLOW	(WET) (8)(5)	lb/hr	977	977	783	589

EMISSIONS DATA - ENGINE OUT						
NOx (as NO2)	(9)(10)	g/bhp-hr	13.44	13.44	11.98	9.70
CO	(9)(10)	g/bhp-hr	13.44	13.44	11.98	9.70
THC (mol. wt. of 15.84)	(9)(10)	g/bhp-hr	2.20	2.20	2.50	3.22
NMHC (mol. wt. of 15.84)	(9)(10)	g/bhp-hr	0.33	0.33	0.37	0.48
NMNEHC (VOCs) (mol. wt. of 15.84)	(9)(10)(11)	g/bhp-hr	0.22	0.22	0.25	0.32
HCHO (Formaldehyde)	(9)(10)	g/bhp-hr	0.27	0.27	0.31	0.33
CO2	(9)(10)	g/bhp-hr	484	484	524	600
EXHAUST OXYGEN	(9)(12)	% DRY	0.5	0.5	0.5	0.5

HEAT REJECTION						
HEAT REJ. TO JACKET WATER (JW)	(13)	Btu/min	6056	6056	5255	4462
HEAT REJ. TO ATMOSPHERE	(13)	Btu/min	751	751	603	459
HEAT REJ. TO LUBE OIL (OC)	(13)	Btu/min	991	991	860	730

COOLING SYSTEM SIZING CRITERIA			
TOTAL JACKET WATER CIRCUIT (JW+OC)	(14)	Btu/min	7850
A cooling system safety factor of 0% has been added to the cooling system sizing criteria.			

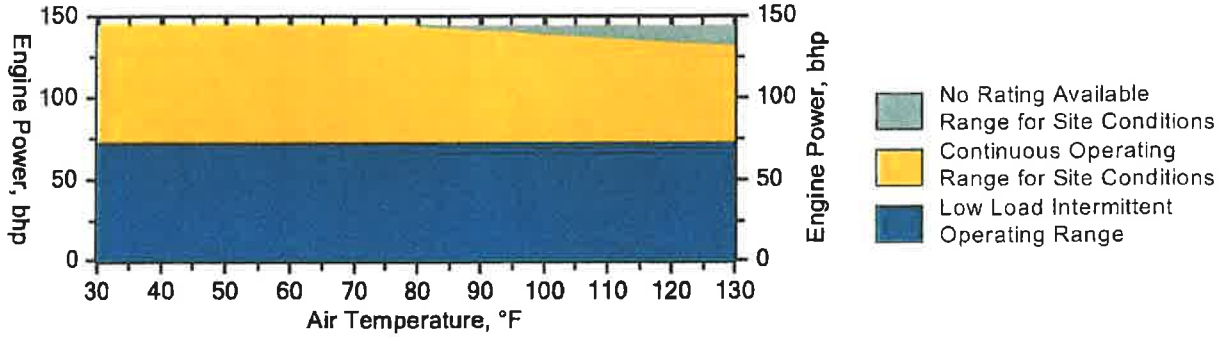
CONDITIONS AND DEFINITIONS

Engine rating obtained and presented in accordance with ISO 3046/1, adjusted for fuel, site altitude and site inlet air temperature. 100% rating at maximum inlet air temperature is the maximum engine capability for the specified fuel at site altitude and maximum site inlet air temperature. Maximum rating is the maximum capability for the specified fuel at site altitude and reduced inlet air temperature. Lowest load point is the lowest continuous duty operating load allowed. No overload permitted at rating shown.

For notes information consult page three.

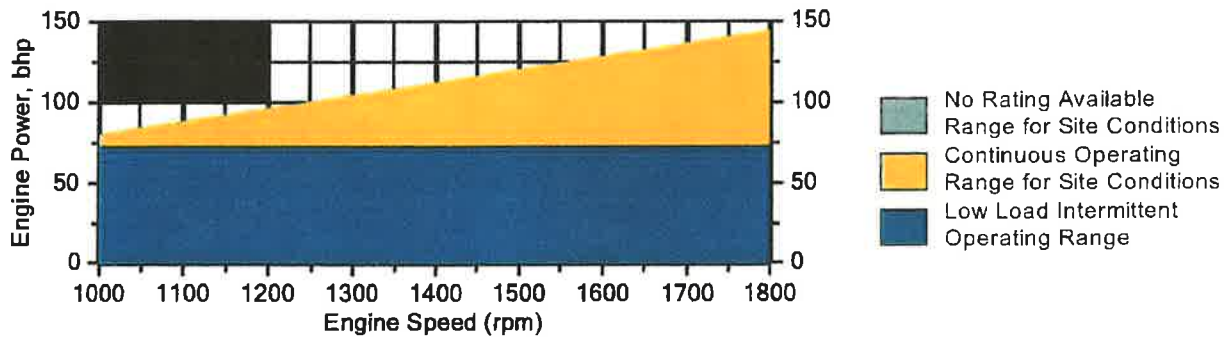
Engine Power vs. Inlet Air Temperature

Data represents temperature sweep at 500 ft and 1800 rpm



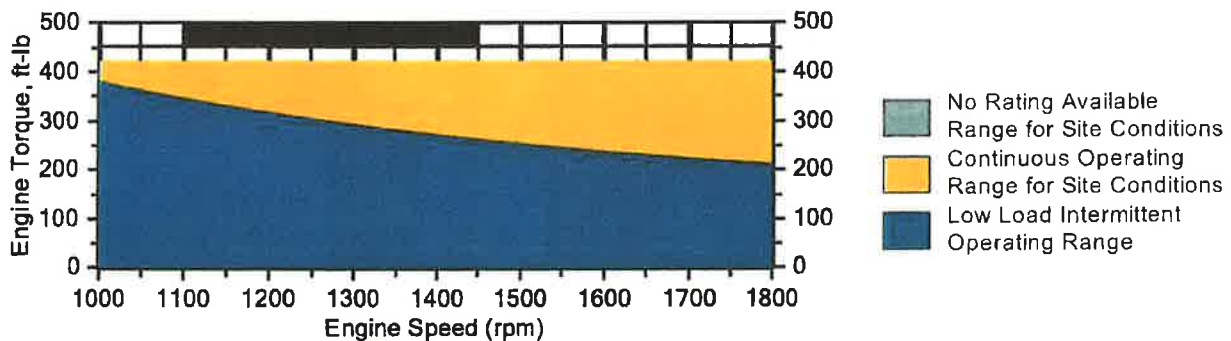
Engine Power vs. Engine Speed

Data represents speed sweep at 500 ft and 77 °F



Engine Torque vs. Engine Speed

Data represents speed sweep at 500 ft and 77 °F



Note: At site conditions of 500 ft and 77°F inlet air temp., constant torque can be maintained down to 1000 rpm. The minimum speed for loading at these conditions is 1000 rpm.

G3306

NON-CURRENT

GAS COMPRESSION APPLICATION

GAS ENGINE SITE SPECIFIC TECHNICAL DATA

CATERPILLAR

NOTES

1. Fuel pressure range specified is to the engine fuel pressure regulator. Additional fuel train components should be considered in pressure and flow calculations.
2. Engine rating is with one engine driven jacket water pump. Tolerance is $\pm 3\%$ of full load.
3. Fuel consumption tolerance is $\pm 5.0\%$ of full load data.
4. Air flow value is on a 'wet' basis. Flow is a nominal value with a tolerance of $\pm 5\%$.
5. Inlet and Exhaust Restrictions must not exceed A&I limits based on full load flow rates from the standard technical data sheet.
6. Inlet manifold pressure is a nominal value with a tolerance of $\pm 5\%$.
7. Exhaust temperature is a nominal value with a tolerance of $(+)63^{\circ}\text{F}$, $(-)54^{\circ}\text{F}$.
8. Exhaust flow value is on a "wet" basis. Flow is a nominal value with a tolerance of $\pm 6\%$.
9. Emissions data is at engine exhaust flange prior to any after treatment.
10. Emission values are based on engine operating at steady state conditions. Fuel methane number cannot vary more than ± 3 . Values listed are higher than nominal levels to allow for instrumentation, measurement, and engine-to-engine variations. They indicate "Not to Exceed" values. THC, NMHC, and NMNEHC do not include aldehydes. Part Load data requires customer supplied air fuel ratio control.
11. VOCs - Volatile organic compounds as defined in US EPA 40 CFR 60, subpart JJJJ
12. Exhaust Oxygen tolerance is ± 0.2 .
13. Heat rejection values are nominal. Tolerances, based on treated water, are $\pm 10\%$ for jacket water circuit, $\pm 50\%$ for radiation, $\pm 20\%$ for lube oil circuit.
14. Cooling system sizing criteria are maximum circuit heat rejection for the site, with applied tolerances.

Constituent	Abbrev	Mole %	Norm
Water Vapor	H2O	0.0000	0.0000
Methane	CH4	96.5200	96.5200
Ethane	C2H6	0.2600	0.2600
Propane	C3H8	0.0000	0.0000
Isobutane	iso-C4H10	0.0000	0.0000
Norbutane	nor-C4H10	0.0000	0.0000
Isopentane	iso-C5H12	0.0000	0.0000
Norpentane	nor-C5H12	0.0000	0.0000
Hexane	C6H14	0.0000	0.0000
Heptane	C7H16	0.0000	0.0000
Nitrogen	N2	2.4200	2.4200
Carbon Dioxide	CO2	0.5100	0.5100
Hydrogen Sulfide	H2S	0.0000	0.0000
Carbon Monoxide	CO	0.0000	0.0000
Hydrogen	H2	0.0000	0.0000
Oxygen	O2	0.2900	0.2900
Helium	HE	0.0000	0.0000
Neopentane	neo-C5H12	0.0000	0.0000
Octane	C8H18	0.0000	0.0000
Nonane	C9H20	0.0000	0.0000
Ethylene	C2H4	0.0000	0.0000
Propylene	C3H6	0.0000	0.0000
TOTAL (Volume %)		100.0000	100.0000

Fuel Makeup: GS 32-13-25
Unit of Measure: English

Calculated Fuel Properties

Caterpillar Methane Number: 99.7
Lower Heating Value (Btu/scf): 884
Higher Heating Value (Btu/scf): 981
WOBBE Index (Btu/scf): 1169
THC: Free Inert Ratio: 52.64
Total % Inerts (% N2, CO2, He): 2.93%
RPC (%) (To 905 Btu/scf Fuel): 100%
Compressibility Factor: 0.998
Stoich A/F Ratio (Vol/Vol): 9.24
Stoich A/F Ratio (Mass/Mass): 16.16
Specific Gravity (Relative to Air): 0.572
Fuel Specific Heat Ratio (K): 1.317

CONDITIONS AND DEFINITIONS

Caterpillar Methane Number represents the knock resistance of a gaseous fuel. It should be used with the Caterpillar Fuel Usage Guide for the engine and rating to determine the rating for the fuel specified. A Fuel Usage Guide for each rating is included on page 2 of its standard technical data sheet.

RPC always applies to naturally aspirated (NA) engines, and turbocharged (TA or LE) engines only when they are derated for altitude and ambient site conditions.

Project specific technical data sheets generated by the Caterpillar Gas Engine Rating Pro program take the Caterpillar Methane Number and RPC into account when generating a site rating.

Fuel properties for Btu/scf calculations are at 60F and 14.696 psia.

Caterpillar shall have no liability in law or equity, for damages, consequently or otherwise, arising from use of program and related material or any part thereof.

FUEL LIQUIDS

Field gases, well head gases, and associated gases typically contain liquid water and heavy hydrocarbons entrained in the gas. To prevent detonation and severe damage to the engine, hydrocarbon liquids must not be allowed to enter the engine fuel system. To remove liquids, a liquid separator and coalescing filter are recommended, with an automatic drain and collection tank to prevent contamination of the ground in accordance with local codes and standards.

To avoid water condensation in the engine or fuel lines, limit the relative humidity of water in the fuel to 80% at the minimum fuel operating temperature.



Warrior Met Coal Gas, LLC
 Jefferson County, Alabama
 1/21/2026



Site - 29-12-03

Air Permit Review

WMCGE Name: UNIT 812005

Alabama Department of Environmental Management

Air Division

Air Pollution Control Program

FORM 107 - Calculations of Point Source Emissions

Engine Information		Emission Factors (1) pollutant	Production (hr) Utilized	Control Device Removal Efficiency (%)	Potential Emissions		Controlled (4) (Ton/yr)
Manufacturer:	Model Number:				(lb/hr)	(Ton/yr)	
Caterpillar	G3306NA	NOx	8760	0	4.30	18.82	N/A
	07Y04390	CO	8760	0	4.30	18.82	N/A
Brake Horsepower (bhp):	145	VOC NMNEHC (3)	8760	0	0.070	0.308	N/A
		PM-10 (6)	8760	0	0.0000	0.0001	N/A
		PM-2.5 (6)	8760	0	0.0000	0.0001	N/A
		PM-Cond (6)	8760	0	0.0032	0.0139	N/A
		SOx	8760	0	-	-	N/A
		Formaldehyde (6)	8760	0	0.09	0.38	N/A
		HAPs	8760	0	0.10	0.46	N/A

HAPs Emissions Summary				
Emission Factors (5) (gm/tp-hr)	Pollutants			Total
	Acet-aldehyde	Acrollien	Benzene	
0.0169	0.0074	0.0043	0.0043	0.0269
			Formaldehyde	0.0009
			Toluene	0.0009
			Xylene	0.0009
				0.3264

- (1) - The manufacturer provided the emission factors
- (2) - Coalbed methane gas samples tested in the laboratory showed no sulfur compounds. (Taurus Exploration)
- (3) - VOC NMHC represents non-methane hydrocarbons as provided by the manufacturer
- (4) - No Catalytic Rduction Device Installed
- (5) - Gas Research Institute (GRI) software GRI-HAPcalc was referenced to provide these factors
- (6) - Emission factors taken from AP-42 Fifth Edition Volume 1: Stationary Point and Area Sources

N

1" = 2000'

COMPRESSOR SITE
29-12-03
UNIT 812005

1/4 MILE RADIUS

STATION 29-10-30

STATION 11

TUSCALOOSA COUNTY
JEFFERSON COUNTY




HANNAH CREEK RD

SEALY ANN MOUNTAIN ROAD

1 MILE RADIUS

MILDALE RD

LEGEND

-  SITE BOUNDARY
-  WMCG COMPRESSOR STATIONS
-  WMCG WELL SITE WITH GAS ENGINE

REPRODUCTION OF A PORTION OF JEFFERSON COUNTY AERIAL BY BING MAPS 2026.

WMCG HAS VERIFIED THAT ALL COMPANY OWNED COMPRESSORS AND WELL SITES WITH GAS ENGINES HAVE BEEN SHOWN WITHIN THE 1-MILE RADIUS ABOVE.



2814 STILLMAN BLVD. • P.O. BOX 20559
TUSCALOOSA, ALABAMA 35402-0559

WWW.MCGIFFERT.COM (205)759-1521 FAX (205)759-1524

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WARRIOR MET COAL GAS, LLC
COMPRESSOR SITE 29-12-03
UNIT 812005

JEFFERSON COUNTY SEC. 29, T. 19 S, R. 6 W ALABAMA

REMOTE AREA MAP

REVISION		
DATE	DESCRIPTION	BY

SCALE: 1"=2000'
DATE OF FIELD SURVEY: N/A
FB. N/A PG. N/A
DRAWN BY: M D S
JOB No. 26-3005
FILE NAME: WMCG-ES 29-12-03-UNIT 812005-RAM

SHEET No. 1 of 1	
CHECKED BY: QHS	DWG. No. 10-26






**COMPRESSOR STACK
COMPRESSOR STATION
29-12-03
UNIT 812005
LATITUDE: 33.354661°
LONGITUDE: -87.193458°**

**WELLHEAD: 29-12-03
LATITUDE: 33.354791°
LONGITUDE: -87.193438°**

SEALY ANN MTN RD



LEGEND

-  SITE BOUNDARY
-  EXISTING WELLHEAD
-  PROPOSED COMPRESSOR STATION

REPRODUCTION OF A PORTION OF JEFFERSON COUNTY AERIAL BY BING MAPS 2026 AND GIS TAX MAP DATA.



McGiffert
and Associates, LLC
— SINCE 1949 —
CIVIL ENGINEERS

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WARRIOR MET COAL GAS, LLC
COMPRESSOR SITE 29-12-03
UNIT 812005

JEFFERSON COUNTY SEC. 29, T. 19S, R. 6W ALABAMA

FACILITY SITE MAP

REVISION		
DATE	DESCRIPTION	BY

SCALE: 1"=60'

DATE OF FIELD SURVEY: N/A

FB. N/A PG. N/A

DRAWN BY: M D S

JOB No. 26-3005

FILE NAME: MCGE-LS 29-12-03-UNIT 812005-FSM

SHEET No. 1 of 1

CHECKED BY: **QHS** DWG. No. **09-26**

Natural Gas Analysis Report

Method: GPA 2261

Sample Identification

Information	
Company	Warrior Met Coal Gas - East
Sample Name	SNG East Tuscaloosa
MID	
Date Pulled	12/17/2025
Taken By	JN
Sample Pressure (PSIG)	382.0
Sampe Temperature (Deg. F)	61.0
Type of Sample	Spot
Cylinder #	30
Analysis Report Number	16536-4
Date Received	12/19/2025
Remarks	
Report Date	12/19/2025

Hydrocarbon Analysis

Component Name	Normalized Mol %	Weight% (Dry)	GPM (Dry) (Gal./1000 cu.ft.)
Nitrogen	4.248	7.143	0.000
Methane	95.278	91.747	0.000
Carbon Dioxide	0.225	0.593	0.000
Ethane	0.197	0.356	0.053
Propane	0.037	0.098	0.010
Iso-Butane	0.006	0.021	0.002
N-Butane	0.007	0.023	0.002
Iso-Pentane	0.002	0.007	0.001
N-Pentane	0.001	0.004	0.000
Hexanes Plus	0.000	0.000	0.000
TOTAL	100.0	100.0	0.068

Results Summary

Results @ 60°F with PSIA of 14.730 :	Dry	Saturated
Total Molecular Weight	16.66	16.68
Compressibility (Z) Factor	0.9981	0.9946
Gross Heating Value (BTU / Ideal cu.ft.)	967.2	950.4
Gross Heating Value (BTU / Real cu.ft.)	954.4	937.8
Gross Heating Value (BTU / lbm)	21699.5	21321.8
Relative Density (G), Ideal	0.575	0.576
Relative Density (G), Real	0.576	0.577
Gross Wobbe Index, Real	1279.75	1257.48

Alan Ball, Laboratory Manager

In partial consideration of providing gas analysis services, it is agreed and understood that: 1) the gas analysis results represent only the composition of the natural gas sample contained in the submitted sample cylinder at the time of such analysis; 2) no representation is made that the results are representative of the natural gas stream that flows, or may flow, at any given time; 3) THERE IS NO WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, AND SPECIFICALLY THERE IS NO WARRANTY OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE, AND ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE EXCLUDED AND SHALL NOT APPLY TO THE SERVICES PROVIDED