

Analysis Certificate Report  
Lucid Energy Group-PURCHASER

7/29/2021 12:18 PM

3100 McKinnon St #800  
Dallas, TX 75201

BROCK A BOWMAN

<b>Analysis ID:</b> 12347		<b>Alternate ID:</b>		<b>Use Contract Values:</b> No	
<b>Name</b>	Vandiver Fee #1H	<b>Company Name:</b> Lucid Energy Group			
<b>Effective Date:</b>	05/01/2021 08:00	<b>Saturated HV:</b>	1291.0	<b>Sample Date:</b>	05/06/2021
<b>Valid Thru Date:</b>	12/31/2078 00:00	<b>As Del. HV:</b>	1295.7	<b>Sample ID:</b>	6030-21050099-006A
<b>Fixed Edit Date:</b>	01/01/1900 00:00	<b>Dry HV:</b>	1312.4	<b>Sample Type:</b>	Spot
<b>Last Update:</b>	06/01/2021 09:56	<b>Measured HV:</b>	1312.4	<b>Sample Pressure Base:</b>	14.730
<b>Data Acquisition:</b>		<b>WOBBE:</b>	1477.8	<b>Sample Temperature:</b>	106.0
<b>Data Source:</b>	Lab Analysis	<b>Water Content:</b>	1.4	<b>Sample Pressure:</b>	86.0
<b>Real Relative Density:</b>	0.7887	<b>Status:</b>	Active	<b>Lab Code:</b>	

<u>Component</u>	<u>% Mol</u>	<u>GPM</u>	Dry Gravity
Methane	70.4867		Saturated Gravity
Ethane	14.0806	3.7818	
Propane	6.2951	1.7417	
I Butane	0.7595	0.2496	
N Butane	1.7611	0.5576	
I Pentane	0.4678	0.1718	
N Pentane	0.4692	0.1708	
Hexanes +	0.8554	0.3749	
Nitrogen	1.4260		
CO2	1.5454		
Oxygen	0.0000		
H2O	1.3600		
CO	0.0000		
H2S	0.4932		
Hydrogen	0.0000		
Helium	0.0000		
Argon	0.0000		
<b>Total</b>	100.0000	7.0482	

Sample Comments:

Configuration Comments:

**Vandiver Fee 1H****30-015-40589****E-17-18S-26E, 2472 FNL 265 FWL, Eddy County****Flare Meter Volumes**

Volume Estimated based on average daily gas production 5/11 thru 7/9/21

	MCF/Day	MCF/Hr
Average Daily Volume	<b>178</b>	7.4

Date	Gas Prod	Est Flare	Est. Hours
7/22/2021	0	178	24
7/21/2021	98	80	11
7/20/2021	100	<u>78</u>	<u>11</u>
		<b>336</b>	<b>45</b>

**District I**

1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720

**District II**

811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720

**District III**

1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170

**District IV**

1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

**State of New Mexico**  
**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

QUESTIONS

Action 30514

**QUESTIONS**

Operator: Murchison Oil and Gas, LLC 7250 Dallas Parkway Plano, TX 75024	OGRID: 15363 Action Number: 30514 Action Type: [C-129] Venting and/or Flaring (C-129)
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**QUESTIONS****Determination of Reporting Requirements**

Answer all questions that apply. The Reason(s) statements are calculated based on your answers and may provide additional guidance.

Was or is this venting or flaring caused by an emergency or malfunction	Yes
Did or will this venting or flaring last eight hours or more cumulatively within any 24-hour period from a single event	Yes
Is this considered a submission for a notification of a major venting or flaring	Yes, minor venting or flaring of natural gas.
<b>The operator shall file a form C-141 instead of a form C-129 for a release that includes liquid during venting or flaring that is or may be a major or minor release under 19.13.29 NMAC.</b>	
Was there or will there be at least 50 MCF of natural gas vented or flared during this event	Yes
Did this venting or flaring result in the release of ANY liquids (not fully and/or completely flared) that reached (or has a chance of reaching) the ground, a surface, a watercourse, or otherwise, with reasonable probability, endanger public health, the environment or fresh water	No

**Unregistered Facility Site**

Please provide the facility details, if the venting or flaring occurred or is occurring at a facility that does not have an Facility ID (##) yet.

Facility or Site Name	Not answered.
Facility Type	Not answered.

**Equipment Involved**

Primary Equipment Involved	Gas Plant
Additional details for Equipment Involved. Please specify	Not answered.

**Representative Compositional Analysis of Vented or Flared Natural Gas**

Please provide the mole percent for the percentage questions in this group.

Methane (CH4) percentage	70
Nitrogen (N2) percentage, if greater than one percent	1
Hydrogen Sulfide (H2S) PPM, rounded up	4,932
Carbon Dioxide (CO2) percentage, if greater than one percent	2
Oxygen (O2) percentage, if greater than one percent	0
<b>If you are venting and/or flaring because of Pipeline Specification, please provide the required specifications for each gas.</b>	
Methane (CH4) percentage quality requirement	Not answered.
Nitrogen (N2) percentage quality requirement	Not answered.
Hydrogen Sulfide (H2S) PPM quality requirement	Not answered.
Carbon Dioxide (CO2) percentage quality requirement	Not answered.
Oxygen (O2) percentage quality requirement	Not answered.

**Date(s) and Time(s)**

Date venting or flaring was discovered or commenced	07/20/2021
Time venting or flaring was discovered or commenced	01:00 PM
Is the venting or flaring event complete	Yes
Date venting or flaring was terminated	07/22/2021
Time venting or flaring was terminated	11:30 PM
Total duration of venting or flaring in hours, if venting or flaring has terminated	45
Longest duration of cumulative hours within any 24-hour period during this event	24

**Measured or Estimated Volume of Vented or Flared Natural Gas**

Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Cause: High Line Pressure   Gas Plant   Natural Gas Flared   Spilled: 336 Mcf   Recovered: 0 Mcf   Lost: 336 Mcf ]
Other Released Details	Not answered.
Additional details for Measured or Estimated Volume(s). Please specify	Estimated (see attached)
Is this a gas only submission (i.e. only Mcf values reported)	Yes, according to supplied volumes this appears to be a "gas only" report.

**Venting or Flaring Resulting from Downstream Activity**

Was or is this venting or flaring a result of downstream activity	Yes
Date notified of downstream activity requiring this venting or flaring	Not answered.
Time notified of downstream activity requiring this venting or flaring	Not answered.

**Steps and Actions to Prevent Waste**

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For this event, the operator could not have reasonably anticipated the current event and it was beyond the operator's control.	True
Please explain reason for why this event was beyond your operator's control	Malfunction at midstream gatherer's plant resulting in high line pressure.
Steps taken to limit the duration and magnitude of venting or flaring	Corrective action not in our control.
Corrective actions taken to eliminate the cause and reoccurrence of venting or flaring	Temporarily shut well in until line pressure is reduced.

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CONDITIONS  
  
Action 30514

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Operator: Murchison Oil and Gas, LLC 7250 Dallas Parkway Plano, TX 75024	OGRID: 15363
	Action Number: 30514
	Action Type: [C-129] Venting and/or Flaring (C-129)

CONDITIONS

Created By	Condition	Condition Date
system	If the information provided in this report requires an amendment, submit a [C-129] Request to Amend Venting and/or Flaring Incident, utilizing your incident number from this event.	7/29/2021