

CERTIFICATE OF ANALYSIS 18110568-002A

Houston Laboratories 8820 Interchange Drive Houston, TX 77054 Phone 713.660.0901

Customer: COMM Engineering Report Date: 12/12/18

Attn: Ethan McMahon

1319 W. Pinhook Rd., Suite 401 PO / Ref. No.:

Lafayette, LA 70503

Company: COMM Engineering Sample Of: Liquid

Field: Sample Date/Time: 11/05/18

Well: Cooper Jal Unit_18110072 Sample Psig & Temp: 38.7 psia @ 67 °F

Sampled By: JW

Sample Point: Spot / Oil Dump Cylinder #: 1030-06326

Comments: EOS Flash Gas Composition

Staged Flash from 38.7 psia @ 67°F to 14.7 psia @ 72°F

	MOL %	WEIGHT %	GPM's @ 14.696
NITROGEN	15.590	16.003	
METHANE	56.513	33.220	
CO2	2.896	4.671	
ETHANE	7.795	8.588	2.089
PROPANE	6.475	10.462	1.788
I-BUTANE	1.394	2.969	0.457
N-BUTANE	4.136	8.808	1.307
I-PENTANE	1.620	4.282	0.594
N-PENTANE	1.608	4.252	0.584
I-HEXANE	0.579	1.830	0.239
N-HEXANE	0.389	1.229	0.160
2,2,4 TRIMETHYLPENTANE	0.005	0.019	0.002
BENZENE	0.051	0.146	0.014
HEPTANES	0.604	2.139	0.279
TOLUENE	0.062	0.210	0.021
OCTANES	0.211	0.868	0.108
E-BENZENE	0.013	0.049	0.005
m,o,&p-XYLENE	0.017	0.065	0.006
NONANES	0.041	0.190	0.023
DECANES PLUS	0.000	0.000	0.000
TOTALS	100.000	100.000	7.678

CALCULATED VALUES

CALCULATED MOLECULAR WEIGHT TOTAL
REAL, DRY BTU AT 14.696 PSIA, 60 DEG.F
REAL, WET BTU AT 14.696 PSIA, 60 DEG.F
REAL, RELATIVE DENSITY
COMPRESSIBILITY FACTOR
27.317
1289.2
1266.7
0.9474
0.99521

REAL, GPM's @ 14.696 psia, 60 Deg.F 7.678 2.037

New Mexico OCD C-129 Calculations or Specific Justification for Volumes

• Calculations

No calculations of volume of vent/flare necessary. Volumes are metered.

• Specific Justification for Volumes

Metered volumes that were previously sold via pipeline. Must flare gas due to sales pipeline being shut-in.

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1625 N. French Dr., Hobbs, NM 88240
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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 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**

DEFINITIONS

Action 222408

DEFINITIONS

Operator:	OGRID:
LEGACY RESERVES OPERATING, LP	240974
15 Smith Road	Action Number:
Midland, TX 79705	222408
	Action Type:
	[C-129] Venting and/or Flaring (C-129)

DEFINITIONS

For the sake of brevity and completeness, please allow for the following in all groups of questions and for the rest of this application:

- this application's operator, hereinafter "this operator";
- · venting and/or flaring, hereinafter "vent or flare";
- any notification or report(s) of the C-129 form family, hereinafter "any C-129 forms";
- the statements in (and/or attached to) this, hereinafter "the statements in this";
- and the past tense will be used in lieu of mixed past/present tense questions and statements.

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

QUESTIONS

Action 222408

Phone:(505) 476-3470 Fax:(505) 476-3462		
	QUESTIONS	
Operator:		OGRID: 340074
LEGACY RESERVES OPERATING, LP 15 Smith Road		240974 Action Number:
Midland, TX 79705		222408
		Action Type: [C-129] Venting and/or Flaring (C-129)
QUESTIONS		
Prerequisites		
Any messages presented in this section, will prevent submission of this application. Please resolve	these issues before continuing v	with the rest of the questions.
Incident Well	Unavailable.	
Incident Facility	[fAPP2135049532] Coop	er Jal Unit BT20419
Determination of Reporting Requirements		
Answer all questions that apply. The Reason(s) statements are calculated based on your answers a	and may provide addional guidan	ce.
Was this vent or flare caused by an emergency or malfunction	Yes	
Did this vent or flare last eight hours or more cumulatively within any 24-hour period from a single event	Yes	
Is this considered a submission for a vent or flare event	Yes, minor venting and/o	or flaring of natural gas.
An operator shall file a form C-141 instead of a form C-129 for a release that, includes liquid during	venting and/or flaring that is or m	ev he a major or minor release under 19 15 29 7 NMAC
Was there at least 50 MCF of natural gas vented and/or flared during this event	Yes	ay be a major or minor release ander 10.10.20.1 (Winte
Did this vent or flare result in the release of ANY liquids (not fully and/or completely	100	
flared) that reached (or has a chance of reaching) the ground, a surface, a	No	
watercourse, or otherwise, with reasonable probability, endanger public health, the environment or fresh water	140	
Was the vent or flare within an incorporated municipal boundary or withing 300 feet from an occupied permanent residence, school, hospital, institution or church in existence	No	
Equipment Involved		
Primary Equipment Involved	Not answered.	
Additional details for Equipment Involved. Please specify	Not answered.	
	<u> </u>	
Representative Compositional Analysis of Vented or Flared Natural Gas		
Please provide the mole percent for the percentage questions in this group.		
Methane (CH4) percentage	57	
Nitrogen (N2) percentage, if greater than one percent	16	
Hydrogen Sulfide (H2S) PPM, rounded up	37,000	
Carbon Dioxide (C02) percentage, if greater than one percent	3	
Oxygen (02) percentage, if greater than one percent	0	
If you are venting and/or flaring because of Pipeline Specification, please provide the required spe	cifications for each gas	
Methane (CH4) percentage quality requirement	Not answered.	
Nitrogen (N2) percentage quality requirement	Not answered.	
Hydrogen Sufide (H2S) PPM quality requirement	Not answered.	
Carbon Dioxide (C02) percentage quality requirement	Not answered.	
1		

Not answered.

Oxygen (02) percentage quality requirement

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QUESTIONS, Page 2

Action 222408

QUESTIONS (continued)

Operator:	OGRID:
LEGACY RESERVES OPERATING, LP	240974
15 Smith Road Midland, TX 79705	Action Number: 222408
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)		
Date vent or flare was discovered or commenced	05/17/2023	
Time vent or flare was discovered or commenced	12:00 AM	
Time vent or flare was terminated	11:59 PM	
Cumulative hours 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: Midstream Scheduled Maintenance Separator Natural Gas Flared Released: 134 Mcf Recovered: 0 Mcf Lost: 134 Mcf.
Other Released Details	Not answered.
Additional details for Measured or Estimated Volume(s). Please specify	Not answered.
Is this a gas only submission (i.e. only significant Mcf values reported)	Yes, according to supplied volumes this appears to be a "gas only" report.

Venting or Flaring Resulting from Downstream Activity		
Was this vent or flare a result of downstream activity	Yes	
Was notification of downstream activity received by this operator	Yes	
Downstream OGRID that should have notified this operator	[24650] TARGA MIDSTREAM SERVICES LLC	
Date notified of downstream activity requiring this vent or flare	04/17/2023	
Time notified of downstream activity requiring this vent or flare	11:09 AM	

Steps and Actions to Prevent Waste		
For this event, this operator could not have reasonably anticipated the current event and it was beyond this operator's control.	True	
Please explain reason for why this event was beyond this operator's control	Targa notified us of a scheduled Monument plant turnaround of Versado Gas Processors, L. L. C. gathering system.	
Steps taken to limit the duration and magnitude of vent or flare	Communicate with sales pipeline for anticipated date of return service.	
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Communicate with sales pipeline for anticipated date of return service.	

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ACKNOWLEDGMENTS

Action 222408

ACKNOWLEDGMENTS

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15 Smith Road	Action Number:
Midland, TX 79705	222408
	Action Type:
	[C-129] Venting and/or Flaring (C-129)

ACKNOWLEDGMENTS

V	I acknowledge that I am authorized to submit a <i>Venting and/or Flaring</i> (C-129) report on behalf of this operator and understand that this report can be a complete C-129 submission per 19.15.27.8 and 19.15.28.8 NMAC.
V	I acknowledge that upon submitting this application, I will be creating a new incident file (assigned to this operator) to track any C-129 forms, pursuant to 19.15.27.7 and 19.15.28.8 NMAC and understand that this submission meets the notification requirements of Paragraph (1) of Subsection G and F respectively.
V	I hereby certify the statements in this report are true and correct to the best of my knowledge and acknowledge that any false statement may be subject to civil and criminal penalties under the Oil and Gas Act.
V	I acknowledge that the acceptance of any C-129 forms by the OCD does not relieve this operator of liability should their operations have failed to adequately investigate, report, and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment.
V	I acknowledge that OCD acceptance of any C-129 forms does not relieve this operator of responsibility for compliance with any other applicable federal, state, or local laws and/or regulations.

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CONDITIONS

Action 222408

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CONDITIONS

Created By	Condition	Condition Date
reyesm01	If the information provided in this report requires an amendment, submit a [C-129] Amend Venting and/or Flaring Incident (C-129A), utilizing your incident number from this event.	5/31/2023