



Report Date: 11/8/2024
 Sample ID: 789-001
 Analysis Request: GPA 2286 (EXT)
 Client: Pro-Tek
 Contact: Michael Powell
 Address: 3900 S County Rd 1290, Odessa, TX 79765

Sample Tag Information

Sample Date: 11/7/2024	Sample Time: 12:00 PM
State: NM	Sample Press (psia): 135
Description: Gas- Purge Fill	Sample Temp (°F): 50
Lease : Mesa Cowboy	Field H ₂ S: <1 ppm
Station : Mesa Cowboy - Sales Line	Flow Rate (mcf): 1849
Sample By: SV	Pressure Base (psia): 14.69
Cylinder # : OSA0063	Ambient Temp(°F): 48

Analysis Report

Physical Properties per GPA 2145-16

Component Name	Mol %	Weight %	Volume %
Nitrogen	0.9576	1.2649	0.5446
Methane	76.7977	58.0932	67.3047
Carbon Dioxide	0.0309	0.0641	0.0273
Ethane	13.2436	18.7771	18.3094
Propane	5.9034	12.2744	8.4076
i-Butane	0.6996	1.9173	1.1834
n-Butane	1.4507	3.9757	2.3642
Neopentane	0.0029	0.0100	0.0058
i-Pentane	0.2582	0.8782	0.4881
n-Pentane	0.2727	0.9276	0.5109
2,2-Dimethylbutane	0.0022	0.0090	0.0048
2,3-Dimethylbutane+Cyclopentane	0.0125	0.0506	0.0264
2-Methylpentane	0.0393	0.1595	0.0842
3-Methylpentane	0.0198	0.0803	0.0416
n-Hexane	0.0495	0.2012	0.1053
2,2-Dimethylpentane	0.0007	0.0032	0.0016
Methylcyclopentane+2,4-Dimethylpentane	0.0183	0.0728	0.0335
2,2,3-Trimethylbutane	0.0001	0.0005	0.0002
Benzene	0.0040	0.0146	0.0057
3,3-Dimethylpentane	0.0003	0.0015	0.0008
Cyclohexane	0.0223	0.0887	0.0393
2-Methylhexane	0.0065	0.0309	0.0157
2,3-Dimethylpentane	0.0017	0.0080	0.0040
3-Methylhexane	0.0070	0.0330	0.0166
1,c-3-Dimethylcyclopentane+3-Ethylpentane	0.0036	0.0165	0.0076
1,t-2-Dimethylcyclopentane+2,2,4-Trimethylpentane	0.0044	0.0202	0.0093
n-Heptane	0.0196	0.0927	0.0468
Methylcyclohexane+2,2-Dimethylhexane	0.0259	0.1198	0.0538
2,5-Dimethylhexane	0.0007	0.0037	0.0018
2,4-Dimethylhexane+Ethylcyclopentane	0.0017	0.0093	0.0046
Toluene	0.0070	0.0303	0.0121
2-Methylheptane+4-Methylheptane	0.0097	0.0523	0.0259
3-Methylheptane	0.0025	0.0133	0.0065
1,t-2-Dimethylcyclohexane	0.0028	0.0149	0.0067
1,c-2-Dimethylcyclohexane	0.0075	0.0398	0.0176



Component Name	Mol %	Weight %	Volume %
n-Octane	0.0157	0.0843	0.0414
1,t-3-Dimethylcyclohexane	0.0020	0.0104	0.0046
1,c-3-Dimethylcyclohexane	0.0013	0.0070	0.0032
Ethylcyclohexane	0.0070	0.0373	0.0163
Ethylbenzene	0.0018	0.0088	0.0035
m-Xylene	0.0108	0.0540	0.0216
p-Xylene	0.0053	0.0266	0.0106
o-Xylene	0.0027	0.0135	0.0053
n-Nonane	0.0110	0.0665	0.0320
Isopropylbenzene	0.0018	0.0100	0.0040
Isopropylcyclohexane+Cyclo-octane	0.0028	0.0166	0.0071
n-Propylcyclohexane	0.0060	0.0357	0.0155
n-Propylbenzene	0.0020	0.0115	0.0046
1,3,5-Trimethylbenzene	0.0021	0.0121	0.0048
1,2,4-Trimethylbenzene+tert-Butylbenzene	0.0073	0.0412	0.0162
tert-Butylcyclohexane	0.0009	0.0062	0.0026
n-Decane	0.0076	0.0507	0.0240
Isobutylbenzene	0.0025	0.0158	0.0063
sec-Butylbenzene	0.0032	0.0200	0.0080
1,2,3-Trimethylbenzene	0.0059	0.0332	0.0128
n-Butylcyclohexane	0.0055	0.0366	0.0158
n-Butylbenzene	0.0084	0.0534	0.0215
Total:	100	100	100
Calculations	Dry		
Pressure Base (psia)	14.696		
Temperature Base	60		
Gross Heating Value (BTU / Ideal cu.ft.)	1270.6		
Gross Heating Value (BTU / lbm)	22735		
Gross Heating Value (BTU / gal.)	65850		
Relative Density (G), Ideal	0.7322		
Total Molecular Weight	21.208		
Total Vapor Pressure (psia)	4006.59		
Total Relative Liquid Density	0.3475		
Total Liquid Density (lbm / gal.)	2.896		
Total Liquid Density (lbm / bbl)	121.649		
Total Volume (cu.ft. / gal.)	51.8272		
API Gravity	275.7		
C6+ Fraction: Volume (cu.ft. / gal.)	23.2370		
C6+ Fraction: API Gravity	59.8805		
C6+ Fraction: Avg. Molecular Weight	100.6679		
C6+ Fraction: Gross Heating Value (BTU / cu.ft.)	5367.8152		
C6+ Fraction: Gross Heating Value (BTU / lbm)	20234.9135		
C6+ Fraction: Gross Heating Value (BTU / gal.)	124732.3353		
C6+ Fraction: Total Mole%	0.3829		



Mesa Cowboy Flare Gas Meter

6/16/2025

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Phone: (505) 476-3441

General Information
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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

DEFINITIONS

Action 477341

DEFINITIONS

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID: 260297
	Action Number: 477341
	Action Type: [C-129] Venting and/or Flaring (C-129)

DEFINITIONS

<p>For the sake of brevity and completeness, please allow for the following in all groups of questions and for the rest of this application:</p> <ul style="list-style-type: none">• 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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QUESTIONS

Action 477341

QUESTIONS

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QUESTIONS

Prerequisites <i>Any messages presented in this section, will prevent submission of this application. Please resolve these issues before continuing with the rest of the questions.</i>	
Incident Well	Unavailable.
Incident Facility	[fAPP2430953482] Mesa Cowboy

Determination of Reporting Requirements <i>Answer all questions that apply. The Reason(s) statements are calculated based on your answers and may provide additional guidance.</i>	
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	No
Is this considered a submission for a vent or flare event	Yes, minor venting and/or flaring of natural gas.
<i>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 may be a major or minor release under 19.15.29.7 NMAC.</i>	
Was there at least 50 MCF of natural gas vented and/or flared during this event	Yes
Did this vent or flare 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
Was the vent or flare within an incorporated municipal boundary or within 300 feet from an occupied permanent residence, school, hospital, institution or church in existence	No

Equipment Involved	
Primary Equipment Involved	Pipeline (Any)
Additional details for Equipment Involved. Please specify	Not answered.

Representative Compositional Analysis of Vented or Flared Natural Gas <i>Please provide the mole percent for the percentage questions in this group.</i>	
Methane (CH4) percentage	74
Nitrogen (N2) percentage, if greater than one percent	1
Hydrogen Sulfide (H2S) PPM, rounded up	0
Carbon Dioxide (CO2) percentage, if greater than one percent	0
Oxygen (O2) percentage, if greater than one percent	0
<i>If you are venting and/or flaring because of Pipeline Specification, please provide the required specifications for each gas.</i>	
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.

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QUESTIONS, Page 2

Action 477341

QUESTIONS (continued)

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QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	06/16/2025
Time vent or flare was discovered or commenced	07:00 AM
Time vent or flare was terminated	08:00 AM
Cumulative hours during this event	1

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 Pipeline (Any) Natural Gas Flared Released: 62 Mcf Recovered: 0 Mcf Lost: 62 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	No
Downstream OGRID that should have notified this operator	[371058] ETC FIELD SERVICES LLC
Date notified of downstream activity requiring this vent or flare	Not answered.
Time notified of downstream activity requiring this vent or flare	Not answered.

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	Unexpected increase in line pressure
Steps taken to limit the duration and magnitude of vent or flare	Working with purchaser until issue is resolved
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Working with purchaser until issue is resolved

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ACKNOWLEDGMENTS

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ACKNOWLEDGMENTS

<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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

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CONDITIONS

Created By	Condition	Condition Date
vanessa king	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.	6/20/2025