



Certificate of Analysis

Number: 6030-20070131-008A

Artesia Laboratory

200 E Main St.
Artesia, NM 88210
Phone 575-746-3481Boone Bajgier
Advance Energy
11490 Westheimer Rd Suite 950
Houston, TX TX 77077

July 24, 2020

Station Name: Merchant St 506Y
Station Number: 2340024
Station Location: Advance
Sample Point: Meter Run
Instrument: 6030_GC2 (Agilent GC-7890B)
Last Inst. Cal.: 05/05/2020 13:27 PM
Analyzed: 07/23/2020 14:13:14 by User1Sampled By: Mike West
Sample Of: Gas Spot
Sample Date: 07/21/2020
Sample Conditions: 90 psig, @ 114 °F Ambient: 90 °F
Effective Date: 07/21/2020
Method: GPA 2286
Cylinder No: 1111-002519

Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.73 psia		
Nitrogen	2.458	2.51100	2.931		GPM TOTAL C2+	8.336
Methane	66.840	68.27200	45.630		GPM TOTAL C3+	4.460
Carbon Dioxide	0.218	0.22300	0.409		GPM TOTAL iC5+	0.972
Ethane	14.125	14.42800	18.075	3.876		
Propane	8.090	8.26300	15.180	2.286		
Iso-butane	1.017	1.03900	2.516	0.342		
n-Butane	2.658	2.71500	6.574	0.860		
Iso-pentane	0.612	0.62500	1.879	0.230		
n-Pentane	0.652	0.66600	2.002	0.243		
Hexanes Plus	1.232	1.25800	4.804	0.499		
	97.902	100.00000	100.000	8.336		

Calculated Physical Properties

	Total	C6+
Relative Density Real Gas	0.8324	3.1665
Calculated Molecular Weight	24.00	91.71
Compressibility Factor	0.9953	

GPA 2172 Calculation:

Calculated Gross BTU per ft³ @ 14.73 psia & 60°F

Real Gas Dry BTU	1398	4902
Water Sat. Gas Base BTU	1374	4816
Ideal, Gross HV - Dry at 14.73 psia	1391.6	4901.7
Ideal, Gross HV - Wet	1367.4	0.000

Comments: H2S Field Content 0 ppm
Mcf/day 818

Hydrocarbon Laboratory Manager

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated.



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July 24, 2020

Station Name: Merchant St 506Y
Station Number: 2340024
Station Location: Advance
Sample Point: Meter Run
Analyzed: 07/23/2020 13:43:11 by User1

Sampled By: Mike West
Sample Of: Gas Spot
Sample Date: 07/21/2020
Sample Conditions: 90 psig, @ 114 °F
Method: GPA 2286
Cylinder No: 1111-002519

Analytical Data

Components	Mol. %	Wt. %	GPM at 14.73 psia	
Nitrogen	2.511	2.931		GPM TOTAL C2+
Methane	68.272	45.630		GPM TOTAL C3+
Carbon Dioxide	0.223	0.409		GPM TOTAL iC5+
Ethane	14.428	18.075	3.876	
Propane	8.263	15.180	2.286	
Iso-Butane	1.039	2.516	0.342	
n-Butane	2.715	6.574	0.860	
Iso-Pentane	0.625	1.879	0.230	
n-Pentane	0.666	2.002	0.243	
Hexanes	0.427	1.495	0.171	
Heptanes Plus	0.831	3.309	0.328	
	100.000	100.000	8.336	

Calculated Physical Properties	Total	C7+
Relative Density Real Gas	0.8324	3.2890
Calculated Molecular Weight	24.00	95.26
Compressibility Factor	0.9953	
GPA 2172 Calculation:		
Calculated Gross BTU per ft³ @ 14.73 psia & 60°F		
Real Gas Dry BTU	1398	5018
Water Sat. Gas Base BTU	1374	4931
Ideal, Gross HV - Dry at 14.73 psia	1391.6	5017.9
Ideal, Gross HV - Wet	1367.4	NIL

Comments: H2S Field Content 0 ppm
Mcf/day 818

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Analytical Data

Components	Mol. %	Wt. %	GPM at 14.73 psia	
Nitrogen	2.511	2.931		
Methane	68.272	45.630		
Carbon Dioxide	0.223	0.409		
Ethane	14.428	18.075	3.876	
Propane	8.263	15.180	2.286	
Iso-Butane	1.039	2.516	0.342	
n-Butane	2.715	6.574	0.860	
Iso-Pentane	0.625	1.879	0.230	
n-Pentane	0.666	2.002	0.243	
i-Hexanes	0.274	0.958	0.109	
n-Hexane	0.153	0.537	0.062	
Benzene	0.098	0.321	0.027	
Cyclohexane	0.149	0.521	0.051	
i-Heptanes	0.213	0.820	0.085	
n-Heptane	0.045	0.186	0.021	
Toluene	0.063	0.241	0.021	
i-Octanes	0.168	0.727	0.074	
n-Octane	0.014	0.065	0.007	
Ethylbenzene	0.007	0.032	0.003	
Xylenes	0.017	0.072	0.006	
i-Nonanes	0.033	0.168	0.017	
n-Nonane	0.008	0.043	0.005	
i-Decanes	0.006	0.040	0.004	
n-Decane	0.002	0.011	0.001	
Undecanes	0.006	0.043	0.004	
Dodecanes	0.002	0.019	0.002	
Tridecanes	NIL	NIL	NIL	
Tetradecanes Plus	NIL	NIL	NIL	
	100.000	100.000	8.336	



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Sample Conditions: 90 psig, @ 114 °F
Method: GPA 2286
Cylinder No: 1111-002519

Calculated Physical Properties	Total
Calculated Molecular Weight	24.002
GPA 2172 Calculation:	
Calculated Gross BTU per ft³ @ 14.73 psia & 60°F	
Real Gas Dry BTU	1398.1
Water Sat. Gas Base BTU	1373.8
Relative Density Real Gas	0.8324
Compressibility Factor	0.9953
Comments: H2S Field Content 0 ppm Mcf/day 818	

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Sample Date: 07/21/2020
Sample Conditions: 90 psig, @ 114 °F
Method: GPA 2286
Cylinder No: 1111-002519

Components	Mol %	Wt %
Unknown Iso-Hexane	0.006	0.022
Nitrogen	2.511	2.931
Methane	68.272	45.630
Carbon Dioxide	0.223	0.409
Ethane	14.428	18.075
Propane	8.263	15.180
Iso-Butane	1.039	2.516
n-Butane	2.715	6.574
Iso-Pentane	0.625	1.879
n-Pentane	0.666	2.002
2,2-Dimethylbutane	0.003	0.013
2,3-Dimethylbutane	0.031	0.110
Cyclopentane	0.038	0.110
2-Methylpentane	0.126	0.450
3-Methylpentane	0.070	0.253
n-Hexane	0.153	0.537
2,2-Dimethylpentane	0.001	0.006
Methylcyclopentane	0.105	0.369
2,2,3-Trimethylbutane	NIL	0.001
Benzene	0.098	0.321
3,3-Dimethylpentane	0.001	0.004
Cyclohexane	0.149	0.521
2-Methylhexane	0.020	0.082
2,3-Dimethylpentane	0.008	0.034
3-Methylhexane	0.031	0.129
1,t-3-Dimethylcyclopentane	0.015	0.062
1,c-3-Dimethylcyclopentane	0.012	0.046
3-Ethylpentane	0.001	0.005
1,t-2-Dimethylcyclopentane	0.018	0.074
2,2,4-Trimethylpentane	0.001	0.008
n-Heptane	0.045	0.186
Unknown Iso-Octane	0.028	0.133
1,1,3-Trimethylcyclopentane	0.007	0.031
2,2-Dimethylhexane	0.002	0.013
Methylcyclohexane	0.098	0.401
2,5-Dimethylhexane	0.001	0.007
2,2,3-Trimethylpentane	NIL	0.001
2,4-Dimethylhexane	0.001	0.004
Ethylcyclopentane	0.003	0.012
1,t-2,c-4-Trimethylcyclopentane	0.005	0.021
3,3-Dimethylhexane	NIL	0.001
2,3,4-Trimethylpentane	0.005	0.021



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Sample Of: Gas Spot
Sample Date: 07/21/2020
Sample Conditions: 90 psig, @ 114 °F
Method: GPA 2286
Cylinder No: 1111-002519

Components	Mol %	Wt %
Toluene	0.063	0.241
2-Methylheptane	0.003	0.017
3-Methylheptane	0.001	0.004
1,c-3-Dimethylcyclohexane	0.013	0.058
1,t-2-Dimethylcyclohexane	0.001	0.003
n-Octane	0.014	0.065
1,c-4-Dimethylcyclohexane	0.003	0.014
1,t-3-Dimethylcyclohexane	0.003	0.014
Unknown Iso-Nonane	0.015	0.080
1,c-2-Dimethylcyclohexane	0.002	0.010
2,6-Dimethylheptane	NIL	0.003
Ethylcyclohexane	0.009	0.041
Ethylbenzene	0.007	0.032
3,4-Dimethylheptane	NIL	0.001
m-Xylene	0.006	0.027
p-Xylene	0.006	0.027
o-Xylene	0.005	0.018
n-Nonane	0.008	0.043
Unknown Iso-Decane	0.001	0.006
Isopropylbenzene	NIL	0.001
Cyclooctane	NIL	0.001
Isopropylcyclohexane	NIL	0.001
n-Butylcyclopentane	0.001	0.004
n-Propylcyclohexane	0.001	0.004
n-Propylbenzene	NIL	0.001
1,2,4-Trimethylbenzene	0.001	0.006
Methylcyclooctane	NIL	0.003
tert-Butylbenzene	NIL	0.003
n-Decane	0.002	0.011
Isobutylbenzene	0.001	0.004
sec-Butylbenzene	NIL	0.001
Unknown Iso-Undecane	0.005	0.033
1,2,3-Trimethylbenzene	0.001	0.005
n-Butylcyclohexane	NIL	0.002
n-Butylbenzene	0.001	0.003
n-Undecane	0.001	0.010
Unknown Iso-Dodecane	0.002	0.018
n-Dodecane	NIL	0.001
	100.000	100.000



11490 Westheimer Road, Suite 950, Houston, Texas 77077 • Phone 832-672-4700 • Fax 832-672-4609

To whom it may concern:

For flare volume calculation, we use a high-pressure flare meter to get the best and most accurate flare readings.

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

DEFINITIONS

Action 73507

DEFINITIONS

Operator: ADVANCE ENERGY PARTNERS HAT MESA, LLC 11490 Westheimer Rd., Ste 950 Houston, TX 77077	OGRID: 372417
	Action Number: 73507
	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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District IV

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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 73507

QUESTIONS

Operator: ADVANCE ENERGY PARTNERS HAT MESA, LLC 11490 Westheimer Rd., Ste 950 Houston, TX 77077	OGRID: 372417
	Action Number: 73507
	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 with the rest of the questions.	
Incident Well	Not answered.
Incident Facility	[fAPP2201950402] Merchant Pad A Battery

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 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, major venting and/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 may be 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
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 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.

Representative Compositional Analysis of Vented or Flared Natural Gas	
Please provide the mole percent for the percentage questions in this group.	
Methane (CH4) percentage	67
Nitrogen (N2) percentage, if greater than one percent	2
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
If you are venting and/or flaring because of Pipeline Specification, please provide the required specifications for each gas.	
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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State of New Mexico
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Oil Conservation Division
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QUESTIONS, Page 2

Action 73507

QUESTIONS (continued)

Operator: ADVANCE ENERGY PARTNERS HAT MESA, LLC 11490 Westheimer Rd., Ste 950 Houston, TX 77077	OGRID: 372417
	Action Number: 73507
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	01/07/2022
Time vent or flare was discovered or commenced	06:30 AM
Time vent or flare was terminated	02:30 PM
Cumulative hours during this event	8

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Cause: Midstream Emergency Maintenance Gas Plant Natural Gas Flared Released: 640 Mcf Recovered: 0 Mcf Lost: 640 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	01/07/2021
Time notified of downstream activity requiring this vent or flare	06:30 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	3rd Party Downtime
Steps taken to limit the duration and magnitude of vent or flare	Communication with 3rd Party
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Constant communication with 3rd party when pipeline will be back up and running.

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ACKNOWLEDGMENTS

Action 73507

ACKNOWLEDGMENTS

Operator: ADVANCE ENERGY PARTNERS HAT MESA, LLC 11490 Westheimer Rd., Ste 950 Houston, TX 77077	OGRID: 372417
	Action Number: 73507
	Action Type: [C-129] Venting and/or Flaring (C-129)

ACKNOWLEDGMENTS

☒	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.
☒	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.
☒	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.
☒	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.
☒	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 73507

CONDITIONS

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	Action Number: 73507
	Action Type: [C-129] Venting and/or Flaring (C-129)

CONDITIONS

Created By	Condition	Condition Date
lanz	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.	1/25/2022