2030 Afton Place
Farmington, NM 87401
(505) 325-6622

Analysis No: HM200073
Cust No: 33700-10530

Well/Lease Information

Customer Name: HARVEST MIDSTREAM
Well Name: KUTZ 1 INLET
County/State:
Location:
Lease/PA/CA:
Formation:
Cust. Stn. No.:

Source:
Well Flowing:
Pressure: 568 PSIG
Flow Temp: 75 DEG. F
Ambient Temp: DEG. F
Flow Rate: MCF/D
Sample Method:
Sample Date: 08/12/2020
Sample Time: 8.30 AM
Sampled By: DANIEL MONCLOVA
Sampled by (CO): HARVEST MID

Heat Trace:
Remarks: Calculated Molecular Weight = 19.5732

Analysis

Component:	Mole%:	Unormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.3113	0.3139	0.0340	0.00	0.0030
CO2	1.8251	1.8402	0.3120	0.00	0.0277
Methane	85.5219	86.2300	14.5380	863.77	0.4737
Ethane	7.2812	7.3415	1.9530	128.86	0.0756
Propane	2.9445	2.9689	0.8130	74.09	0.0448
Iso-Butane	0.5286	0.5330	0.1730	17.19	0.0106
N-Butane	0.7552	0.7615	0.2390	24.64	0.0152
Neopentane 2,2 dmc3	0.0000	0.0000	0.0000	0.00	0.0000
I-Pentane	0.2099	0.2116	0.0770	8.40	0.0052
N-Pentane	0.1406	0.1418	0.0510	5.64	0.0035
Neohexane	0.0012	N/R	0.0010	0.06	0.0000
2-3-Dimethylbutane	0.0082	N/R	0.0030	0.39	0.0002
Cyclopentane	0.0085	N/R	0.0030	0.32	0.0002
2-Methylpentane	0.0553	N/R	0.0230	2.63	0.0016
3-Methylpentane	0.0214	N/R	0.0090	1.02	0.0006
C6	0.0552	0.4856	0.0230	2.63	0.0016
Methylcyclopentane	0.0351	N/R	0.0120	1.58	0.0010
Benzene	0.0074	N/R	0.0020	0.28	0.0002
Cyclohexane	0.0207	N/R	0.0070	0.93	0.0006
2-Methylhexane	0.0077	N/R	0.0040	0.42	0.0003
3-Methylhexane	0.0095	N/R	0.0040	0.52	0.0003
2-2-4-Trimethylpentane	0.0037	N/R	0.0020	0.23	0.0001
i-heptanes	0.0053	N/R	0.0020	0.28	0.0002
Heptane	0.0311	N/R	0.0140	1.71	0.0011

Methylcyclohexane	0.0752	N/R	0.0300	3.92	0.0025
Toluene	0.0494	N/R	0.0170	2.21	0.0016
2-Methylheptane	0.0211	N/R	0.0110	1.31	0.0008
4-Methylheptane	0.0088	N/R	0.0050	0.55	0.0003
i-Octanes	0.0111	N/R	0.0050	0.67	0.0004
Octane	0.0243	N/R	0.0120	1.52	0.0010
Ethylbenzene	0.0012	N/R	0.0000	0.06	0.0000
m, p Xylene	0.0139	N/R	0.0050	0.72	0.0005
o Xylene (& 2,2,4 tmc7)	0.0011	N/R	0.0000	0.06	0.0000
i-C9	0.0014	N/R	0.0010	0.09	0.0001
C9	0.0026	N/R	0.0010	0.18	0.0001
i-C10	0.0008	N/R	0.0000	0.06	0.0000
C10	0.0003	N/R	0.0000	0.02	0.0000
i-C11	0.0000	N/R	0.0000	0.00	0.0000
C11	0.0001	N/R	0.0000	0.01	0.0000
C12P	0.0001	N/R	0.0000	0.01	0.0000
Total	100.00	100.828	18.386	1146.93	0.6751

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY
**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBLITY FACTOR (1/Z):	1.003	CYLINDER #:	6
BTU/CU.FT IDEAL:	1149.6	CYLINDER PRESSURE:	548 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1153.0	ANALYSIS DATE:	08/13/2020
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1132.9	ANALYIS TIME:	09:24:07 AM
DRY BTU @ 15.025:	1176.1	ANALYSIS RUN BY:	PATRICIA KING
REAL SPECIFIC GRAVITY:	0.6769		

GPM, BTU, and SPG calculations as shown above are based on current GPA constants.
GPA Standard: GPA 2286-14
GC: SRI Instruments 8610 **Last Cal/Verify: 08/13/2020**
GC Method: C12+BTEX Gas

HARVEST MIDSTREAM

WELL ANALYSIS COMPARISON

Lease: KUTZ 1 INLET 08/13/2020
Stn. No.: 33700-10530
Mtr. No.:

Smpl Date:	08/12/2020
Test Date:	08/13/2020
Run No:	HM200073
Nitrogen:	0.3113
CO2:	1.8251
Methane:	85.5219
Ethane:	7.2812
Propane:	2.9445
I-Butane:	0.5286
N-Butane:	0.7552
2,2 dmc3:	0.0000
I-Pentane:	0.2099
N-Pentane:	0.1406
Neohexane:	0.0012
2-3-Cyclopentane:	0.0082
2-Methylpentane:	0.0085
3-Methylpentane:	0.0553
C6:	0.0214
Methylcyclopentane:	0.0552
Benzene:	0.0351
Cyclohexane:	0.0074
2-Methylhexane:	0.0207
3-Methylhexane:	0.0077
2-2-4-i-heptanes:	0.0000
Heptane:	0.0037
Methylcyclohexane:	0.0053
Toluene:	0.0311
2-Methylheptane:	0.0752
4-Methylheptane:	0.0494
i-Octanes:	0.0211
Octane:	0.0088
Ethylbenzene:	0.0111
m, p Xylene:	0.0243
o Xylene (& 2,2,4	0.0012
i-C9:	0.0139
C9:	0.0011
i-C10:	0.0014
C10:	0.0026
i-C11:	0.0008
C11:	0.0003
C12P:	0.0000
	0.0001
	0.0001
BTU:	1153.0
GPM:	18.4050
SPG:	0.6769

33700 - 10530 HM 200073 548#

Location of Sample: KUTZ 1 INLET		Meter Code & CK Digit:
Continuous Sampler Beginning Date:	Ending Date or Date Pulled: 8-12-20	
Run Number:	Operator Code: NIC	Line PSIG: 568
Cylinder Number: #6	Type Sample: ☐ Spot ☐ Continuous	Flow Temp.: 75
Remarks: EXTENDED ANALYSIS		
Sample Taken By: DANIEL MONCLOVA	Phone Number:	

san juan reproduction 216-68

ENERGYPTL, LLC
PRECISION TESTING AND LABORATORY

Client	Harvest Midstream	10844-2020110214.1	
Sample Id.	Kutz Plant CO2 Exhaust Vent	Sample Pressure (psig)	8.7
Bottle #	H2S-13	Sample Temp. (°F)	N/A
Sample Type	Spot	Atm Temp. (°F)	44
Sample Time	8:45:00 AM	Sample Date	10/21/2020
Sampled By	ES	Report Date	10/31/2020
Analysis Requested	C6+ w/No Additional	Field Data	N/A

	Mol %	Vol %	Wt. %	GPM
Nitrogen	1.7826	1.1312	1.1401	0.1961
Carbon Dioxide	95.2272	93.9612	95.6806	16.2528
Helium	0.0000	0.0000	0.0000	0.0000
Hydrogen	0.0000	0.0000	0.0000	0.0000
Oxygen	0.0000	0.0000	0.0000	0.0000
Argon	0.0000	0.0000	0.0000	0.0000
Hydrogen Sulfide	0.0000	0.0000	0.0000	0.0000
Methane	1.2351	1.2709	0.4523	0.2094
Ethane	0.2381	0.3686	0.1635	0.0637
Propane	0.2578	0.4111	0.2595	0.0710
Iso-butane	0.0995	0.1884	0.1320	0.0326
N-butane	0.1066	0.1945	0.1414	0.0336
Iso-pentane	0.1673	0.3543	0.2756	0.0612
N-pentane	0.1905	0.3992	0.3138	0.0691
Hexanes+	0.6953	1.7206	1.4412	0.2974
Heptanes	0.0000	0.0000	0.0000	0.0000
Octanes	0.0000	0.0000	0.0000	0.0000
Nonanes	0.0000	0.0000	0.0000	0.0000
	100.0000	100.0000	100.0000	17.2869

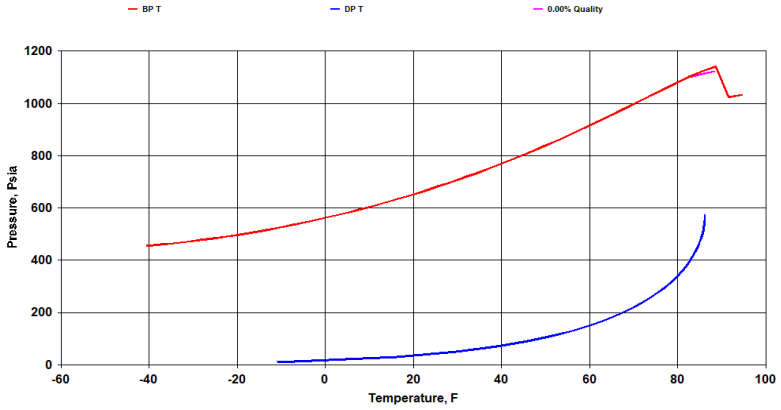
Physical Properties	
Sp. Gravity @ 60F (dry)	1.5204
Sp. Gravity @ 60F (wet)	1.5055
comp. Factor @ 60F (dry)	0.99424
comp. factor @ 60F (wet)	0.99378
Viscosity @ 100F cp	0.0154
Viscosity @ 200F cp	0.0178
Molecular Weight	43.8024
Heating Values - Ideal Gas	
Btu/ft3- Gross (dry)	78.74
Btu/ft3- Gross (wet)	77.37
Btu/ft3- Net (dry)	72.48
Btu/ft3- Net (wet)	71.22
Heating Values - Real Gas	
Btu/ft3- Gross (dry)	79.20
Btu/ft3- Gross (wet)	77.86
Btu/ft3- Net (dry)	72.90
Btu/ft3- Net (wet)	71.67
Pressure Base	14.65

Gasoline Content (GPM)

Ethane & Heavier	0.6286
Propane & Heavier	0.5649
Butane & Heavier	0.4939
Pentane & Heavier	0.4277

Element Wt. %

Carbon	28.7159
Hydrogen	0.5747
Oxygen	69.5659
Nitrogen	1.1401



Comments

"0" denotes below MDL or N/A
MDL: HC=1 ppm/Gas=10 ppm
PT based on Peng Robinson EOS

	Capacity scfm	Duration in Seconds	Total Volume released
	42876		
Seconds	60		
SCFS	714.6	131	93469.68

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
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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 41211

QUESTIONS

Operator: Harvest Four Corners, LLC 1111 Travis Street Houston, TX 77002	OGRID: 373888
	Action Number: 41211
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Determination of Reporting Requirements	
Answer all questions that apply. The Reason(s) statements are calculated based on your answers and may provide addional guidance.	
Was or is this venting or flaring caused by an emergency or malfunction	No
Did or will this venting or flaring last eight hours or more cumulatively within any 24-hour period from a single event	No
Is this considered a submission for a notification of a major venting or flaring	**Yes, minor venting or flaring of natural gas.**
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 19.15.29.7 NMAC.	
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 occuring at a facility that does not have an Facility ID (f#) yet.	
Facility or Site Name	Kutz Plant
Facility Type	Gas Plant - (GP)

Equipment Involved	
Primary Equipment Involved	Valve
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	86
Nitrogen (N2) percentage, if greater than one percent	0
Hydrogen Sulfide (H2S) PPM, rounded up	0
Carbon Dioxide (C02) percentage, if greater than one percent	2
Oxygen (02) 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 Sufide (H2S) PPM quality requirement	*Not answered.*
Carbon Dioxide (C02) percentage quality requirement	*Not answered.*
Oxygen (02) percentage quality requirement	*Not answered.*

Date(s) and Time(s)	
Date venting or flaring was discovered or commenced	07/27/2021
Time venting or flaring was discovered or commenced	07:09 AM
Is the venting or flaring event complete	Yes
Date venting or flaring was terminated	07/27/2021
Time venting or flaring was terminated	07:13 AM
Total duration of venting or flaring in hours, if venting or flaring has terminated	0
Longest duration of cumulative hours within any 24-hour period during this event	0

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Cause: Other | Valve | Natural Gas Vented | Spilled: 93 Mcf | Recovered: 0 Mcf | Lost: 93 Mcf]
Natural Gas Flared (Mcf) Details	*Not answered.*
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 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	No
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	
For this event, the operator could not have reasonably anticipated the current event and it was beyond	True

the operator's control.	
Please explain reason for why this event was beyond your operator's control	After construction, the block valve was left closed. The valve that was designed to control was not scaled and tuned correctly as this was the first time using the valve and process.
Steps taken to limit the duration and magnitude of venting or flaring	Y compressor station was shut down to stop pressure from building.
Corrective actions taken to eliminate the cause and reoccurrence of venting or flaring	The block valve was locked open to ensure it doesn't inadvertently shut and an update to the operating procedure was made.

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1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Operator:	OGRID:
Harvest Four Corners, LLC 1111 Travis Street Houston, TX 77002	373888
	Action Number: 41211
	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.	8/11/2021