



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%:	Unnormalized %:	**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.

COMPRESSIBILITY 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	ANALYSIS 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-: 0.0082
 Cyclopentane: 0.0085
 2-Methylpentane: 0.0553
 3-Methylpentane: 0.0214
 C6: 0.0552
 Methylcyclopentane: 0.0351
 Benzene: 0.0074
 Cyclohexane: 0.0207
 2-Methylhexane: 0.0077
 3-Methylhexane: 0.0000
 2-2-4-: 0.0037
 i-heptanes: 0.0053
 Heptane: 0.0311
 Methylcyclohexane: 0.0752
 Toluene: 0.0494
 2-Methylheptane: 0.0211
 4-Methylheptane: 0.0088
 i-Octanes: 0.0111
 Octane: 0.0243
 Ethylbenzene: 0.0012
 m, p Xylene: 0.0139
 o Xylene (& 2,2,4: 0.0011
 i-C9: 0.0014
 C9: 0.0026
 i-C10: 0.0008
 C10: 0.0003
 i-C11: 0.0000
 C11: 0.0001
 C12P: 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 <input type="checkbox"/> Spot <input type="checkbox"/> Continuous	Flow Temp. 75
Remarks EXTENDED ANALYSIS		
Sample Taken By DANIEL MONCLOVA		Phone Number san juan reproduction 216-68

Line Leak Calc

Orifice Diameter	0.21 inches
Pressure	53 psig
Time/date from aerial survey	6/26/2021 11:08
Time/date Isolated	7/7/2021 9:00
Total Hours Blown	261.87
Area of Orifice	0.03464 sq. inches

Lost Gas From Line Leak 612.061 Mcf

Blowdown Calc

Length	2,778 feet
Actual Pipe OD	4.500 inches
Wall Thickness	0.156 inches
Pressure	90 psig

Lost Gas From Blowdown 1.631 Mcf

Total Gas Loss 613.69 Mcf

Lost Gas=(Orifice Diameter)^2*Pressure*Time Blown

Lost Gas=(Inside Diameter)^2*Pressure*Length*0.372/1000000

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 37856

QUESTIONS

Operator: Harvest Four Corners, LLC 1111 Travis Street Houston, TX 77002	OGRID: 373888
	Action Number: 37856
	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 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, major 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 19.13.29 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 occurring at a facility that does not have an Facility ID (##) yet.

Facility or Site Name	Hanks 22
Facility Type	Natural Gas Gathering System - (GGS)

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

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 (CO2) percentage, if greater than one percent	2
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.

Date(s) and Time(s)

Date venting or flaring was discovered or commenced	07/07/2021
Time venting or flaring was discovered or commenced	09:00 AM
Is the venting or flaring event complete	Yes
Date venting or flaring was terminated	07/07/2021
Time venting or flaring was terminated	09:00 AM
Total duration of venting or flaring in hours, if venting or flaring has terminated	262
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	Cause: Corrosion Pipeline (Any) Natural Gas Vented Spilled: 614 Mcf Recovered: 0 Mcf Lost: 614 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 the operator's control.	True
Please explain reason for why this event was beyond your operator's control	Natural gas leak detected by aerial leak detection survey. Leak caused by external corrosion of the natural gas pipeline. Harvest could not have reasonably prevented the corrosion
Steps taken to limit the duration and magnitude of venting or flaring	Upon notification of natural gas leak, from aerial leak detection survey report, Harvest immediately investigated, isolated, and addressed the cause of the natural gas release
Corrective actions taken to eliminate the cause and reoccurrence of venting or flaring	Harvest removed the section of pipe that was leaking as a result of external corrosion and replaced with new pipe

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CONDITIONS

Action 37856

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Operator: Harvest Four Corners, LLC 1111 Travis Street Houston, TX 77002	OGRID: 373888
	Action Number: 37856
	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.	7/24/2021