

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

Analysis No: HM20230054 Cust No: 33700-10265

Well/Lease Information

Customer Name: HARVEST MIDSTREAM

Well Name: 32-9 CDP

County/State: Location: Lease/PA/CA: Formation: Cust. Stn. No.:

Meter Run Source:

Well Flowing: Υ

Pressure: 103 PSIG Flow Temp: 68 DEG. F Ambient Temp: 73 DEG. F Flow Rate: 25 MCF/D

Sample Method:

Sample Date: 05/18/2023 Sample Time: 12.12 PM Sampled By: David Whitehorn Sampled by (CO): HARVEST

Heat Trace: Ν

Remarks: Calculated Molecular Weight: 21.27

Analysis

Nitrogen 0.0671 0.0665 0.0070 0.00 0.0006 CO2 17.4187 17.2641 2.9800 0.00 0.2647 Methane 80.9431 80.2246 13.7540 817.53 0.4483 Ethane 1.0322 1.0230 0.2770 18.27 0.0107 Propane 0.2248 0.2228 0.0620 5.66 0.0034 Iso-Butane 0.0271 0.0269 0.0090 0.88 0.0005 N-Butane 0.0308 0.0305 0.0100 1.00 0.0006 Neopentane 2,2 dmc3 0.2321 0.2300 0.0890 9.25 0.0058 I-Pentane 0.0066 0.0065 0.0020 0.26 0.0002 N-Pentane 0.0041 0.0041 0.0020 0.26 0.0002 N-Pentane 0.0001 N/R 0.0000 0.01 0.0001 N-Pentane 0.0001 N/R 0.0000 0.01 0.0000 2-3-Dimethylbutane 0.0001 <	Component:	Mole%:	Unormalized %:	**GPM:	*BTU:	*SP Gravity:
Methane 80.9431 80.2246 13.7540 817.53 0.4483 Ethane 1.0322 1.0230 0.2770 18.27 0.0107 Propane 0.2248 0.2228 0.0620 5.66 0.0034 Iso-Butane 0.0271 0.0269 0.0090 0.88 0.0005 N-Butane 0.0308 0.0305 0.0100 1.00 0.0006 Neopentane 2,2 dmc3 0.2321 0.2300 0.0890 9.25 0.0058 I-Pentane 0.0066 0.0065 0.0020 0.26 0.0002 N-Pentane 0.0041 0.0041 0.0020 0.26 0.0002 N-Pentane 0.0041 0.0041 0.0020 0.17 0.0001 Neohexane 0.0001 N/R 0.0000 0.00 0.0000 2-3-Dimethylbutane 0.0001 N/R 0.0000 0.00 0.0000 Cyclopentane 0.0001 N/R 0.0000 0.04 0.0000 2-Methylpentane 0.0001 <td>Nitrogen</td> <td>0.0671</td> <td>0.0665</td> <td>0.0070</td> <td>0.00</td> <td>0.0006</td>	Nitrogen	0.0671	0.0665	0.0070	0.00	0.0006
Ethane 1.0322 1.0230 0.2770 18.27 0.0107 Propane 0.2248 0.2228 0.0620 5.66 0.0034 Iso-Butane 0.0271 0.0269 0.0090 0.88 0.0005 N-Butane 0.0308 0.0305 0.0100 1.00 0.0066 Neopentane 2,2 dmc3 0.2321 0.2300 0.0890 9.25 0.0058 I-Pentane 0.0066 0.0065 0.0020 0.26 0.0002 N-Pentane 0.0041 0.0041 0.0020 0.17 0.0001 Neohexane 0.0001 N/R 0.0000 0.00 0.0000 2-3-Dimethylbutane 0.0001 N/R 0.0000 0.00 0.0000 Cyclopentane 0.0001 N/R 0.0000 0.00 0.0000 2-Methylpentane 0.0009 N/R 0.0000 0.01 0.0000 2-Methylpentane 0.0011 0.0133 0.0000 0.05 0.0000 Methylcyclopentane 0	CO2	17.4187	17.2641	2.9800	0.00	0.2647
Propane 0.2248 0.2228 0.0620 5.66 0.0034 Iso-Butane 0.0271 0.0269 0.0090 0.88 0.0005 N-Butane 0.0308 0.0305 0.0100 1.00 0.0006 Neopentane 2,2 dmc3 0.2321 0.2300 0.0890 9.25 0.0058 I-Pentane 0.0066 0.0065 0.0020 0.26 0.0002 N-Pentane 0.0041 0.0041 0.0020 0.17 0.0001 N-Pentane 0.0001 N/R 0.0000 0.00 0.0000 N-Pentane 0.0001 N/R 0.0000 0.00 0.0001 N-Pentane 0.0001 N/R 0.0000 0.00 0.0000 N-Pentane 0.0001 N/R 0.0000 0.00 0.0000 N-Pentane 0.0001 N/R 0.0000 0.00 0.0000 Cyclopentane 0.0001 N/R 0.0000 0.01 0.0000 Methylycyclopentane 0.0002 N	Methane	80.9431	80.2246	13.7540	817.53	0.4483
So-Butane 0.0271 0.0269 0.0090 0.88 0.0005	Ethane	1.0322	1.0230	0.2770	18.27	0.0107
N-Butane 0.0308 0.0305 0.0100 1.00 0.0006 Neopentane 2,2 dmc3 0.2321 0.2300 0.0890 9.25 0.0058 I-Pentane 0.0066 0.0065 0.0020 0.26 0.0002 N-Pentane 0.0041 0.0041 0.0020 0.17 0.0001 Neohexane 0.0001 N/R 0.0000 0.00 0.00 0.0000 2-3-Dimethylbutane 0.0001 N/R 0.0000 0.00 0.000 Cyclopentane 0.0001 N/R 0.0000 0.00 0.000 2-Methylpentane 0.0009 N/R 0.0000 0.04 0.0000 3-Methylpentane 0.0003 N/R 0.0000 0.01 0.0000 C66 0.0011 0.0133 0.0000 0.05 0.0000 Methylcyclopentane 0.0007 N/R 0.0000 0.03 0.0000 Benzene 0.0002 N/R 0.0000 0.01 0.0000 Cyclohexane 0.0005 N/R 0.0000 0.01 0.0000 Cyclohexane 0.0003 N/R 0.0000 0.01 0.0000 Cyclohexane 0.0003 N/R 0.0000 0.01 0.0000 Cyclohexane 0.0005 N/R 0.0000 0.02 0.0000 3-Methylhexane 0.0003 N/R 0.0000 0.02 0.0000 Cyclohexane 0.0003 N/R 0.0000 0.02 0.0000 Cyclohexane 0.0003 N/R 0.0000 0.01 0.0000	Propane	0.2248	0.2228	0.0620	5.66	0.0034
Neopentane 2,2 dmc3 0.2321 0.2300 0.0890 9.25 0.0058 I-Pentane 0.0066 0.0065 0.0020 0.26 0.0002 N-Pentane 0.0041 0.0041 0.0020 0.17 0.0001 Neohexane 0.0001 N/R 0.0000 0.00 0.0000 2-3-Dimethylbutane 0.0001 N/R 0.0000 0.00 0.0000 Cyclopentane 0.0001 N/R 0.0000 0.00 0.0000 2-Methylpentane 0.0009 N/R 0.0000 0.04 0.0000 3-Methylpentane 0.0003 N/R 0.0000 0.01 0.0000 Methylcyclopentane 0.0007 N/R 0.0000 0.03 0.0000 Benzene 0.0002 N/R 0.0000 0.01 0.0000 Cyclohexane 0.0005 N/R 0.0000 0.02 0.0000 2-Methylhexane 0.0002 N/R 0.0000 0.01 0.0000 3-Methylpentane 0	Iso-Butane	0.0271	0.0269	0.0090	0.88	0.0005
I-Pentane 0.0066 0.0065 0.0020 0.26 0.0002 N-Pentane 0.0041 0.0041 0.0020 0.17 0.0001 Neohexane 0.0001 N/R 0.0000 0.00 0.00 0.0000 0.000 0.0000 0.0000 0.000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00	N-Butane	0.0308	0.0305	0.0100	1.00	0.0006
N-Pentane 0.0041 0.0041 0.0020 0.17 0.0001 Neohexane 0.0001 N/R 0.0000 0.00 0.000 2-3-Dimethylbutane 0.0001 N/R 0.0000 0.00 0.000 Cyclopentane 0.0001 N/R 0.0000 0.00 0.000 2-Methylpentane 0.0009 N/R 0.0000 0.04 0.0000 3-Methylpentane 0.0003 N/R 0.0000 0.01 0.0000 C6 0.0011 0.0133 0.0000 0.05 0.0000 Methylcyclopentane 0.0007 N/R 0.0000 0.03 0.0000 Benzene 0.0002 N/R 0.0000 0.01 0.0000 Cyclohexane 0.0005 N/R 0.0000 0.01 0.0000 Cyclohexane 0.0005 N/R 0.0000 0.02 0.0000 3-Methylhexane 0.0003 N/R 0.0000 0.02 0.0000 2-Lethylhexane 0.0002 N/R 0.0000 0.02 0.0000 3-Methylhexane 0.0002 N/R 0.0000 0.01 0.0000 3-Methylhexane 0.0003 N/R 0.0000 0.01 0.0000 3-Methylhexane 0.0003 N/R 0.0000 0.01 0.0000 3-Methylhexane 0.0002 N/R 0.0000 0.01 0.0000 3-Methylhexane 0.0003 N/R 0.0000 0.01 0.0000	Neopentane 2,2 dmc3	0.2321	0.2300	0.0890	9.25	0.0058
Neohexane 0.0001 N/R 0.0000 0.00 0.0000 2-3-Dimethylbutane 0.0001 N/R 0.0000 0.00 0.0000 Cyclopentane 0.0001 N/R 0.0000 0.00 0.0000 2-Methylpentane 0.0009 N/R 0.0000 0.04 0.0000 3-Methylpentane 0.0003 N/R 0.0000 0.01 0.0000 C6 0.0011 0.0133 0.0000 0.05 0.0000 Methylcyclopentane 0.0007 N/R 0.0000 0.03 0.0000 Benzene 0.0002 N/R 0.0000 0.01 0.0000 Cyclohexane 0.0005 N/R 0.0000 0.02 0.0000 2-Methylhexane 0.0002 N/R 0.0000 0.01 0.0000 3-Methylpentane 0.0001 N/R 0.0000 0.01 0.0000 1-heptanes 0.0003 N/R 0.0000 0.01 0.0000	I-Pentane	0.0066	0.0065	0.0020	0.26	0.0002
2-3-Dimethylbutane	N-Pentane	0.0041	0.0041	0.0020	0.17	0.0001
Cyclopentane 0.0001 N/R 0.0000 0.00 0.0000 2-Methylpentane 0.0009 N/R 0.0000 0.04 0.0000 3-Methylpentane 0.0003 N/R 0.0000 0.01 0.0000 C6 0.0011 0.0133 0.0000 0.05 0.0000 Methylcyclopentane 0.0007 N/R 0.0000 0.03 0.0000 Benzene 0.0002 N/R 0.0000 0.01 0.0000 Cyclohexane 0.0005 N/R 0.0000 0.02 0.0000 2-Methylhexane 0.0003 N/R 0.0000 0.01 0.0000 3-Methylhexane 0.0002 N/R 0.0000 0.01 0.0000 2-2-4-Trimethylpentane 0.0001 N/R 0.0000 0.01 0.0000 I-bettare 0.0003 N/R 0.0000 0.02 0.0000	Neohexane	0.0001	N/R	0.0000	0.00	0.0000
2-Methylpentane 0.0009 N/R 0.0000 0.04 0.0000 3-Methylpentane 0.0003 N/R 0.0000 0.01 0.0000 C6 0.0011 0.0013 0.0000 0.05 0.0000 Methylcyclopentane 0.0007 N/R 0.0000 0.03 0.0000 Denzene 0.0002 N/R 0.0000 0.01 0.0000 Cyclohexane 0.0005 N/R 0.0000 0.02 0.0000 2-Methylhexane 0.0003 N/R 0.0000 0.02 0.0000 3-Methylhexane 0.0002 N/R 0.0000 0.01 0.0000 0.02 0.0000 2-2-4-Trimethylpentane 0.0001 N/R 0.0000 0.01 0.0000 i-heptanes 0.0003 N/R 0.0000 0.02 0.0000	2-3-Dimethylbutane	0.0001	N/R	0.0000	0.00	0.0000
3-Methylpentane 0.0003 N/R 0.0000 0.01 0.0000 C6 0.0011 0.0007 N/R 0.0000 0.05 0.0000 Methylcyclopentane 0.0007 N/R 0.0000 0.03 0.0000 Cyclohexane 0.0002 N/R 0.0000 0.01 0.0000 Cyclohexane 0.0005 N/R 0.0000 0.02 0.0000 2-Methylhexane 0.0003 N/R 0.0000 0.02 0.0000 3-Methylhexane 0.0002 N/R 0.0000 0.01 0.0000 0.02 0.0000 2-2-4-Trimethylpentane 0.0001 N/R 0.0000 0.01 0.0000 i-heptanes 0.0003 N/R 0.0000 0.02 0.0000	Cyclopentane	0.0001	N/R	0.0000	0.00	0.0000
C6 0.0000 0.011 0.0133 0.0000 0.05 0.0000 0.0000 Methylcyclopentane 0.0007 N/R 0.0000 0.03 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.00	2-Methylpentane	0.0009	N/R	0.0000	0.04	0.0000
C6 0.0011 0.0133 0.0000 0.05 0.0000 Methylcyclopentane 0.0007 N/R 0.0000 0.03 0.0000 Benzene 0.0002 N/R 0.0000 0.01 0.0000 Cyclohexane 0.0005 N/R 0.0000 0.02 0.0000 2-Methylhexane 0.0003 N/R 0.0000 0.01 0.0000 3-Methylhexane 0.0001 N/R 0.0000 0.01 0.0000 2-2-4-Trimethylpentane 0.0003 N/R 0.0000 0.01 0.0000 Harteness 0.0003 N/R 0.0000 0.02 0.0000	3-Methylpentane	0.0003	N/R	0.0000	0.01	0.0000
Methylcyclopentane 0.0007 N/R 0.0000 0.03 0.0000 Benzene 0.0002 N/R 0.0000 0.01 0.0000 Cyclohexane 0.0005 N/R 0.0000 0.02 0.0000 2-Methylhexane 0.0003 N/R 0.0000 0.01 0.0000 3-Methylhexane 0.0002 N/R 0.0000 0.01 0.0000 2-2-4-Trimethylpentane 0.0003 N/R 0.0000 0.01 0.0000 I-besterne 0.0003 N/R 0.0000 0.02 0.0000	C6	0.0011	0.0133			0.0000
Cyclohexane 0.0005 N/R 0.0000 0.02 0.0000 2-Methylhexane 0.0003 N/R 0.0000 0.02 0.0000 3-Methylhexane 0.0002 N/R 0.0000 0.01 0.0000 2-2-4-Trimethylpentane 0.0001 N/R 0.0000 0.01 0.0000 i-heptanes 0.0003 N/R 0.0000 0.02 0.0000	Methylcyclopentane	0.0007	N/R			0.0000
Cyclohexane 0.0005 N/R 0.0000 0.02 0.0000 2-Methylhexane 0.0003 N/R 0.0000 0.02 0.0000 3-Methylhexane 0.0002 N/R 0.0000 0.01 0.0000 2-2-4-Trimethylpentane 0.0001 N/R 0.0000 0.01 0.0000 i-heptanes 0.0003 N/R 0.0000 0.02 0.0000	Benzene	0.0002	N/R	0.0000	0.01	0.0000
2-Methylhexane 0.0003 N/R 0.0000 0.02 0.0000 3-Methylhexane 0.0002 N/R 0.0000 0.01 0.0000 2-2-4-Trimethylpentane 0.0001 N/R 0.0000 0.01 0.0000 i-heptanes 0.0003 N/R 0.0000 0.02 0.0000	Cyclohexane	0.0005	N/R	0.0000		0.0000
2-2-4-Trimethylpentane 0.0001 N/R 0.0000 0.01 0.0000 i-heptanes 0.0003 N/R 0.0000 0.02 0.0000	2-Methylhexane	0.0003	N/R	0.0000	0.02	0.0000
i-heptanes 0.0003 N/R 0.0000 0.02 0.0000	3-Methylhexane	0.0002	N/R	0.0000	0.01	0.0000
1.0000 0.02 0.0000	2-2-4-Trimethylpentane	0.0001	N/R	0.0000		0.0000
0.0040 N/D	i-heptanes	0.0003	N/R			0.0000
	Heptane	0.0012	N/R			0.0000

Received by OCD: 9/1/2023 11:5 Methylcyclohexane	0.0016	N/R	0.0010	0.08	Page 2 of 11 0.0001
Toluene	0.0008	N/R	0.0000	0.04	0.0000
2-Methylheptane	0.0004	N/R	0.0000	0.02	0.0000
4-Methylheptane	0.0002	N/R	0.0000	0.01	0.0000
i-Octanes	0.0005	N/R	0.0000	0.03	0.0000
Octane	0.0008	N/R	0.0000	0.05	0.0000
Ethylbenzene	0.0001	N/R	0.0000	0.01	0.0000
m, p Xylene	0.0009	N/R	0.0000	0.05	0.0000
o Xylene (& 2,2,4 tmc7)	0.0002	N/R	0.0000	0.01	0.0000
i-C9	0.0004	N/R	0.0000	0.03	0.0000
C9	0.0005	N/R	0.0000	0.03	0.0000
i-C10	0.0006	N/R	0.0000	0.04	0.0000
C10	0.0002	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	99.112	17.194	853.75	0.7355

^{* @ 14.730} PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

^{**@ 14.730} PSIA & 60 DEG. F.

COMPRESSIBLITY FACTOR	(1/Z):	1.0026	CYLINDER #:	8
BTU/CU.FT IDEAL:		855.7	CYLINDER PRESSURE:	91 PSIG
BTU/CU.FT (DRY) CORRECTED FO	OR (1/Z):	857.9	ANALYSIS DATE:	05/19/2023
BTU/CU.FT (WET) CORRECTED FO	OR (1/Z):	843.0	ANALYIS TIME:	01:29:07 AM
DRY BTU @ 15.025:		875.1	ANALYSIS RUN BY:	ELAINE MORRISON
REAL SPECIFIC GRAVITY:		0.7371		

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: 05/19/2023

GC Method: C12+BTEX Gas



HARVEST MIDSTREAM WELL ANALYSIS COMPARISON

 Lease:
 32-9 CDP
 Meter Run
 05/19/2023

 Stn. No.:
 33700-10265

Mtr. No.:

Smpl Date:	05/18/2023	04/22/2022	05/26/2021	05/14/2020	08/28/2019	06/06/2019
Test Date:	05/19/2023	05/02/2022	06/02/2021	05/19/2020	08/29/2019	06/11/2019
Run No:	HM20230054	HM20220039	HM2021056	HM200043	HM190045	HM190037
	0.0671	0.0494	0.0707	0.0202	0.0795	0.0257
Nitrogen:						
CO2:	17.4187	15.5859	17.5688	17.7291	19.8778	17.4919
Methane:	80.9431	83.2839	81.0029	81.2632	77.6978	81.5905
Ethane:	1.0322	0.8779	1.0412	0.7967	1.6280	0.7078
Propane:	0.2248	0.1610	0.2385	0.1485	0.5238	0.1425
I-Butane:	0.0271	0.0188	0.0330	0.0160	0.0750	0.0140
N-Butane:	0.0308	0.0186	0.0288	0.0207	0.0762	0.0152
2,2 dmc3:	0.2321	0.0000	0.0000	0.0000	0.0000	0.0004
I-Pentane:	0.0066	0.0026	0.0092	0.0017	0.0181	0.0053
N-Pentane:	0.0041	0.0018	0.0069	0.0009	0.0096	0.0009
Neohexane:	0.0001	0.0000	0.0000	0.0000	0.0001	0.0000
2-3-	0.0001	0.0000	0.0000	0.0001	0.0003	0.0000
Cyclopentane:	0.0001	0.0000	0.0000	0.0001	0.0003	0.0000
2-Methylpentane:	0.0009	0.0000	0.0000	0.0004	0.0021	0.0001
3-Methylpentane:	0.0003	0.0000	0.0000	0.0001	0.0006	0.0002
C6:	0.0011	0.0000	0.0000	0.0004	0.0020	0.0000
Methylcyclopentane:	0.0007	0.0000	0.0000	0.0002	0.0015	0.0004
Benzene:	0.0002	0.0000	0.0000	0.0000	0.0003	0.0002
Cyclohexane:	0.0005	0.0000	0.0000	0.0002	0.0008	0.0002
2-Methylhexane:	0.0003	0.0000	0.0000	0.0000	0.0002	0.0001
3-Methylhexane:	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2-2-4-	0.0001	0.0000	0.0000	0.0000	0.0001	0.0000
i-heptanes:	0.0003	0.0000	0.0000	0.0000	0.0000	0.0001
Heptane:	0.0012	0.0000	0.0000	0.0003	0.0008	0.0004
Methylcyclohexane:	0.0016	0.0000	0.0000	0.0003	0.0017	0.0008
Toluene:	0.0008	0.0000	0.0000	0.0002	0.0005	0.0015
2-Methylheptane:	0.0004	0.0000	0.0000	0.0002	0.0003	0.0002
4-Methylheptane:	0.0004	0.0000	0.0000	0.0000	0.0003	0.0002
i-Octanes:						
Octane:	0.0005	0.0000	0.0000	0.0000	0.0002	0.0002
Ethylbenzene:	0.0008	0.0000	0.0000	0.0002	0.0004	0.0003
m, p Xylene:	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000
o Xylene (& 2,2,4	0.0009	0.0000	0.0000	0.0001	0.0003	0.0003
i-C9:	0.0002	0.0000	0.0000	0.0000	0.0001	0.0000
C9:	0.0004	0.0000	0.0000	0.0001	0.0002	0.0001
i-C10:	0.0005	0.0000	0.0000	0.0001	0.0001	0.0001
C10:	0.0006	0.0000	0.0000	0.0001	0.0001	0.0000
i-C11:	0.0002	0.0000	0.0000	0.0000	0.0001	0.0001
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
C11:	0.0001	0.0000	0.0000	0.0001	0.0000	0.0000
C12P:	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000
BTU:	857.9	866.3	849.4	844.1	837.7	845.7
GPM:	17.1090	17.1150	17.1490	17.1130	17.2610	17.1020
SPG:	0.7371	0.7125	0.7340	0.7327	0.7640	0.7300
	0.7371	0.7 120	0.7340	0.7327	0.7040	0.7300

2030 Afton Place, Farmington, NM 87401 - (.	Page 4 of 11
C6+ C9+ C12	+ RTEY Holium
NALYSIS N2 Flowback Sulfus	ırs 🗆 Ext. Liquid 🗖
Other	Date C. 18-12
Sampled By:(Co.) /tarvesT ///: de L	Time 12112 DAM
Sumpled by (Person) Vand Whiteham	_Well Flowing: Yes \(\square\) No
Company: Harnest mid stream	_ Heat Trace: ☐ Yes 💢 No
23-5 (A)	Flow Pressure (PSIG): /0 3
Location: 32-9 CDN	
County/State: San Shan Co.	_ Ambient Temp (°F): 73
Earmation.	Flow Rate (MCF/D): 25 MMCF
Source: Meter Run Tubing Casing Bradenhead Other	
Sample Type: Spot Composite Sample Method: Purge & Fill	Other
Meter Number:	Cylinder Number:
Contact: 505 - 787 - 7710	
Remarks: Extended sample	
>>100 -105/P2 +M 30	230054

Line Leak Calc - Dehydrator Dump Valve

Maximum Flow Rate 1620 Mcfd

% Open 1%

Pressure 910 psig

Time/date Discovered 8/5/2023 9:21 Time/date Isolated 8/16/2023 11:00

Total Hours Blown 265.65 hours

Lost Gas From Dump Valve 179.3 Mcf

Line Leak Calc - 1" Ball Valve

Orifice Diameter 0.063 inches

Pressure 85 psig

Time/date Discovered 8/5/2023 9:21 Time/date Isolated 8/16/2023 11:00

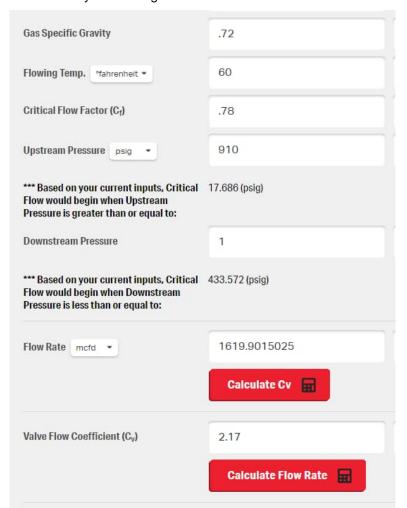
Total Hours Blown 265.65 hours

Area of Orifice 0.003 sq. inches

Lost Gas From Leaking Ball Valve 88.204 Mcf

Total Gas Loss 446.83 Mcf

Online Kimray Gas Sizing Calculator



	1°Cf&	Cv VALU	ES	
Line Size	Flow Characteristic	Trim Size	Cf	Ov
		1/8"	0.73	0.45
	Quick	3/16*	0.74	1.00
	Opening	1/4"	0.68	1.93
	(Carbide)	3/8"	0.74	3.86
		1/2"	0.90	5.70
		1/8"	0.58	1.06
		3/16"	0.59	1.51
.1"	Nominal	1/4*	0.78	2.17
- 27		3/8"	0.91	3.22
		1/2"	0.94	5.72

1/4" nominal trim size

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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 261405

DEFINITIONS

Operator:	OGRID:
Harvest Four Corners, LLC	373888
1755 Arroyo Dr	Action Number:
Bloomfield, NM 87413	261405
	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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QUESTIONS

Action 261405

	QUESTIONS	
Operator:		OGRID:
Harvest Four Corners, LLC		373888
1755 Arroyo Dr Bloomfield, NM 87413		Action Number: 261405
Blooming HW 07470		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 wi	th the rest of the questions.
Incident Well	Unavailable.	
Incident Facility	[fAPP2123052765] HARVE	ST FOUR CORNERS GATHER SYSTEM
Determination of Reporting Requirements		
Answer all questions that apply. The Reason(s) statements are calculated based on your answers a	and may provide addional quidance	1.
Was this vent or flare caused by an emergency or malfunction	No	
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/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 ma	v 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	, se a major er miner resease ander recreation frames.
Did this vent or flare result in the release of ANY liquids (not fully and/or completely	163	
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	Tank (Any)	
Additional details for Equipment Involved. Please specify	Produced water tank was	blowing gas from dehy dump controller
Representative Compositional Analysis of Vented or Flared Natural Gas		
Please provide the mole percent for the percentage questions in this group.	T 04	
Methane (CH4) percentage	81	
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	17	
Oxygen (02) percentage, if greater than one percent	0	
Marian and the first hand of Piral 200 Marian hand and Piral 200 Maria	-16:4:	
If you are venting and/or flaring because of Pipeline Specification, please provide the required spe Methane (CH4) percentage quality requirement	cifications for each gas. Not answered.	
	i nui alisweleu.	

Not answered.

Not answered.

Not answered.

Not answered.

Nitrogen (N2) percentage quality requirement

Oxygen (02) percentage quality requirement

Hydrogen Sufide (H2S) PPM quality requirement

Carbon Dioxide (C02) percentage quality requirement

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QUESTIONS, Page 2

Action 261405

QUESTIONS	(continued)
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Operator:	OGRID:
Harvest Four Corners, LLC	373888
1755 Arroyo Dr	Action Number:
Bloomfield, NM 87413	261405
	Action Type:
	[C-129] Venting and/or Flaring (C-129)
QUESTIONS	

Date(s) and Time(s)		
Date vent or flare was discovered or commenced	09/01/2023	
Time vent or flare was discovered or commenced	08:25 AM	
Time vent or flare was terminated	11:00 AM	
Cumulative hours during this event	266	

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Cause: Equipment Failure Tank (Any) Natural Gas Vented Released: 447 Mcf Recovered: 0 Mcf Lost: 447 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 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	No	
Was notification of downstream activity received by this operator	No	
Downstream OGRID that should have notified this operator	Not answered.	
Date notified of downstream activity requiring this vent or flare	Not answered.	
Time notified of downstream activity requiring this vent or flare	Not answered.	

teps 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	failed dump controller outside of operations control. daily walk through's help to discover events.
Steps taken to limit the duration and magnitude of vent or flare	upon discovery tank was shut in and repairs were made
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	repairs completed on failed dump controller. Unable to anticipate failure, daily facility checks help in preventing further reoccurrence.

Action 261405

ACKNOWLEDGMENTS

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Bloomfield, NM 87413	261405
	Action Type:
	[C-129] Venting and/or Flaring (C-129)

ACKNOWLEDGMENTS

>	I acknowledge that I am authorized to submit a Venting and/or Flaring (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.
~	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 261405

CONDITIONS

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Bloomfield, NM 87413	261405
	Action Type:
	[C-129] Venting and/or Flaring (C-129)

CONDITIONS

Created By	Condition	Condition Date
mosmith	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.	9/1/2023