

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

Analysis No: HM20230056 Cust No: 33700-10245

Well/Lease Information

Customer Name: HARVEST MIDSTREAM

Well Name:

SAN JUAN NM County/State:

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

N/A Source: **NORTH CRANDELL** Well Flowing: Υ

> Pressure: 31 PSIG Flow Temp: 76 DEG. F Ambient Temp: 80 DEG. F Flow Rate: MCF/D

Sample Method:

Sample Date: 05/26/2023 Sample Time: 12.10 PM Sampled By: Kane Morgen

Sampled by (CO): HARVEST MID Heat Trace: Ν

Remarks: Calculated Molecular Weight = 20.1879

Analysis

| CO2 1.5069 1.5133 0.2580 0.00 0.0229 Methane 84.5208 84.8786 14.3710 853.66 0.4682 Ethane 7.4261 7.4575 1.9920 131.42 0.0771 Propane 3.2240 3.2376 0.8910 81.12 0.0491 Iso-Butane 0.6545 0.6573 0.2150 21.28 0.0131 N-Butane 0.9700 0.9741 0.3070 31.64 0.0193 Neopentane 2,2 dmc3 0.0000 0.0000 0.0000 0.000 0.000 0.000 N-Pentane 0.3694 0.3710 0.1360 14.78 0.0092 N-Pentane 0.2638 0.2649 0.0960 10.57 0.0066 Neohexane 0.0158 N/R 0.0070 0.75 0.0066 Neohexane 0.0153 N/R 0.0060 0.73 0.0005 2-3-Dimethylbutane 0.0159 N/R 0.0050 0.60 0.0004 Cyclopentane | Component: | Mole%: | Unormalized %: | **GPM: | *BTU: | *SP Gravity: |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------|----------------|---------|--------|--------------|
| Methane 84.5208 84.8786 14.3710 853.66 0.4682 Ethane 7.4261 7.4575 1.9920 131.42 0.0771 Propane 3.2240 3.2376 0.8910 81.12 0.0491 Iso-Butane 0.6545 0.6573 0.2150 21.28 0.0131 N-Butane 0.9700 0.9741 0.3070 31.64 0.0195 Neopentane 2,2 dmc3 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 I-Pentane 0.3694 0.3710 0.1360 14.78 0.0092 N-Pentane 0.2638 0.2649 0.0960 10.57 0.0066 Nechexane 0.0158 N/R 0.0070 0.75 0.0005 2-3-Dimethylbutane 0.0153 N/R 0.0060 0.73 0.0005 Cyclopentane 0.0159 N/R 0.0050 0.60 0.0004 2-Methylpentane 0.1028 N/R 0.0430 4.88 0.0012 C6 | Nitrogen | 0.1874 | 0.1882 | 0.0210 | 0.00 | 0.0018 |
| Ethane 7.4261 7.4575 1.9920 131.42 0.0771 Propane 3.2240 3.2376 0.8910 81.12 0.0491 Iso-Butane 0.6545 0.6573 0.2150 21.28 0.0131 N-Butane 0.9700 0.9741 0.3070 31.64 0.0195 Neopentane 2,2 dmc3 0.0000 0.0000 0.0000 0.000 0.00 I-Pentane 0.3694 0.3710 0.1360 14.78 0.092 N-Pentane 0.2638 0.2649 0.0960 10.57 0.0066 Neohexane 0.0158 N/R 0.0070 0.75 0.0005 2-3-Dimethylbutane 0.0153 N/R 0.0060 0.73 0.0005 Cyclopentane 0.0159 N/R 0.0050 0.60 0.0004 2-Methylpentane 0.1028 N/R 0.0430 4.88 0.0031 3-Methylpentane 0.0390 N/R 0.0160 1.85 0.0012 C6 0.1300 0.8808 0.0540 6.18 0.0039 Methylcyclopentane 0.1043 N/R 0.0370 4.69 0.0030 Benzene 0.0167 N/R 0.0050 0.62 0.0005 Cyclohexane 0.0494 N/R 0.0170 2.21 0.0014 2-Methylhexane 0.0183 N/R 0.0090 1.00 0.0006 3-Methylcycane 0.0183 N/R 0.0090 1.00 0.0006 Cyclohexane 0.0494 N/R 0.0170 2.21 0.0014 2-Methylhexane 0.0183 N/R 0.0090 1.00 0.0006 3-Methylcycane 0.0241 N/R 0.0110 1.31 0.0008 3-Methylhexane 0.0238 N/R 0.0040 0.46 0.0003 3-Methylhexane 0.0075 N/R 0.0040 0.46 0.0003 | CO2 | 1.5069 | 1.5133 | 0.2580 | 0.00 | 0.0229 |
| Propane 3.2240 3.2376 0.8910 81.12 0.0491 Iso-Butane 0.6545 0.6573 0.2150 21.28 0.0131 N-Butane 0.9700 0.9741 0.3070 31.64 0.0195 Neopentane 2,2 dmc3 0.0000 0.0000 0.0000 0.0000 0.0000 I-Pentane 0.3694 0.3710 0.1360 14.78 0.0092 N-Pentane 0.2638 0.2649 0.0960 10.57 0.0066 Neohexane 0.0158 N/R 0.0070 0.75 0.0005 2-3-Dimethylbutane 0.0153 N/R 0.0060 0.73 0.0005 Cyclopentane 0.0159 N/R 0.0050 0.60 0.0004 2-Methylpentane 0.1028 N/R 0.0430 4.88 0.0031 3-Methylpentane 0.0390 N/R 0.0160 1.85 0.0012 C6 0.1300 0.8808 0.0540 6.18 0.0039 Methylcyclopentane 0. | Methane | 84.5208 | 84.8786 | 14.3710 | 853.66 | 0.4682 |
| So-Butane 0.6545 0.6573 0.2150 21.28 0.0131 N-Butane 0.9700 0.9741 0.3070 31.64 0.0195 Neopentane 2,2 dmc3 0.0000 0.0000 0.0000 0.000 I-Pentane 0.3694 0.3710 0.1360 14.78 0.0092 N-Pentane 0.2638 0.2649 0.0960 10.57 0.0066 Neohexane 0.0158 N/R 0.0070 0.75 0.0005 2-3-Dimethylbutane 0.0153 N/R 0.0060 0.73 0.0005 Cyclopentane 0.0159 N/R 0.0050 0.60 0.0004 2-Methylpentane 0.1028 N/R 0.0430 4.88 0.031 3-Methylpentane 0.0390 N/R 0.0160 1.85 0.0012 C6 0.1300 0.8808 0.0540 6.18 0.0039 Methylcyclopentane 0.1043 N/R 0.0370 4.69 0.0030 Benzene 0.0167 N/R 0.0050 0.62 0.0005 Cyclohexane 0.0494 N/R 0.0170 2.21 0.0014 2-Methylhexane 0.0183 N/R 0.0090 1.00 0.0006 3-Methylhexane 0.0241 N/R 0.0110 1.31 0.0008 2-2-4-Trimethylpentane 0.0038 N/R 0.0040 0.46 0.0003 I-Pentane 0.0138 N/R 0.0040 0.46 0.0003 I-Pentane 0.0030 N/R 0.0040 0.46 0.0003 I-Pentane 0.0030 N/R 0.0040 0.46 0.0003 I-Pentane 0.0030 N/R 0.0060 0.73 0.0005 I-Pentane 0.0030 0.0060 0.73 0.0005 I-Pentane 0.0030 0.0060 0.006 | Ethane | 7.4261 | 7.4575 | 1.9920 | 131.42 | 0.0771 |
| N-Butane 0.9700 0.9741 0.3070 31.64 0.0195 Neopentane 2,2 dmc3 0.0000 0.0000 0.0000 0.0000 0.0000 I-Pentane 0.3694 0.3710 0.1360 14.78 0.0092 N-Pentane 0.2638 0.2649 0.0960 10.57 0.0066 Neohexane 0.0158 N/R 0.0070 0.75 0.0005 2-3-Dimethylbutane 0.0153 N/R 0.0060 0.73 0.0005 Cyclopentane 0.0159 N/R 0.0050 0.60 0.0004 2-Methylpentane 0.1028 N/R 0.0430 4.88 0.0031 3-Methylpentane 0.0390 N/R 0.0160 1.85 0.0012 C6 0.1300 0.8808 0.0540 6.18 0.0039 Methylcyclopentane 0.1043 N/R 0.0370 4.69 0.0030 Benzene 0.0167 N/R 0.0050 0.62 0.0005 Cyclohexane 0.0494 N/R 0.0170 2.21 0.0014 2-Methylhexane 0.0183 N/R 0.0090 1.00 0.0006 3-Methylhexane 0.0241 N/R 0.0090 1.00 0.0006 3-Methylpentane 0.0075 N/R 0.0040 0.46 0.0003 I-Pentane 0.0183 N/R 0.0040 0.46 0.0003 I-Pentane 0.0006 | Propane | 3.2240 | 3.2376 | 0.8910 | 81.12 | 0.0491 |
| Neopentane 2,2 dmc3 0.0000 0.0000 0.0000 0.0000 I-Pentane 0.3694 0.3710 0.1360 14.78 0.0092 N-Pentane 0.2638 0.2649 0.0960 10.57 0.0066 Neohexane 0.0158 N/R 0.0070 0.75 0.0005 2-3-Dimethylbutane 0.0153 N/R 0.0060 0.73 0.0005 Cyclopentane 0.0159 N/R 0.0050 0.60 0.0004 2-Methylpentane 0.1028 N/R 0.0430 4.88 0.0031 3-Methylpentane 0.0390 N/R 0.0160 1.85 0.0012 C6 0.1300 0.8808 0.0540 6.18 0.0039 Methylcyclopentane 0.1043 N/R 0.0370 4.69 0.0030 Benzene 0.0167 N/R 0.0050 0.62 0.0005 Cyclohexane 0.0494 N/R 0.0170 2.21 0.0014 2-Methylhexane 0.0241 N/R <td>Iso-Butane</td> <td>0.6545</td> <td>0.6573</td> <td>0.2150</td> <td>21.28</td> <td>0.0131</td> | Iso-Butane | 0.6545 | 0.6573 | 0.2150 | 21.28 | 0.0131 |
| I-Pentane 0.3694 0.3710 0.1360 14.78 0.0092 N-Pentane 0.2638 0.2649 0.0960 10.57 0.0066 Neohexane 0.0158 N/R 0.0070 0.75 0.0005 2-3-Dimethylbutane 0.0153 N/R 0.0060 0.73 0.0005 Cyclopentane 0.0159 N/R 0.0050 0.60 0.0004 2-Methylpentane 0.1028 N/R 0.0430 4.88 0.0031 3-Methylpentane 0.0390 N/R 0.0160 1.85 0.0012 C6 0.1300 0.8808 0.0540 6.18 0.0039 Methylcyclopentane 0.1043 N/R 0.0370 4.69 0.0030 Benzene 0.0167 N/R 0.0050 0.62 0.0005 Cyclohexane 0.0494 N/R 0.0170 2.21 0.0014 2-Methylhexane 0.0183 N/R 0.0090 1.00 0.0006 3-Methylhexane 0.0241 N/R 0.0090 1.00 0.0006 3-Methylhexane 0.0075 N/R 0.0040 0.46 0.0003 i-heptanes 0.0138 N/R 0.0040 0.46 0.0003 | N-Butane | 0.9700 | 0.9741 | 0.3070 | 31.64 | 0.0195 |
| N-Pentane 0.2638 0.2649 0.0960 10.57 0.0066 Neohexane 0.0158 N/R 0.0070 0.75 0.0005 2-3-Dimethylbutane 0.0153 N/R 0.0060 0.73 0.0005 Cyclopentane 0.0159 N/R 0.0050 0.60 0.0004 2-Methylpentane 0.1028 N/R 0.0430 4.88 0.0031 3-Methylpentane 0.0390 N/R 0.0160 1.85 0.0012 C6 0.1300 0.8808 0.0540 6.18 0.0039 Methylcyclopentane 0.1043 N/R 0.0370 4.69 0.0030 Benzene 0.0167 N/R 0.0050 0.62 0.0005 Cyclohexane 0.0494 N/R 0.0170 2.21 0.0014 2-Methylhexane 0.0183 N/R 0.0090 1.00 0.0006 3-Methylhexane 0.0241 N/R 0.010 1.31 0.0008 2-2-4-Trimethylpentane 0.0075 N/R 0.0040 0.46 0.0003 i-heptanes 0.0138 N/R 0.0060 0.73 0.0005 | Neopentane 2,2 dmc3 | 0.0000 | 0.0000 | 0.0000 | 0.00 | 0.0000 |
| Neohexane 0.0158 N/R 0.0070 0.75 0.0005 2-3-Dimethylbutane 0.0153 N/R 0.0060 0.73 0.0005 Cyclopentane 0.0159 N/R 0.0050 0.60 0.0004 2-Methylpentane 0.1028 N/R 0.0430 4.88 0.0031 3-Methylpentane 0.0390 N/R 0.0160 1.85 0.0012 C6 0.1300 0.8808 0.0540 6.18 0.0039 Methylcyclopentane 0.1043 N/R 0.0370 4.69 0.0030 Benzene 0.0167 N/R 0.0050 0.62 0.0005 Cyclohexane 0.0494 N/R 0.0170 2.21 0.0014 2-Methylhexane 0.0183 N/R 0.0090 1.00 0.0006 3-Methylhexane 0.0241 N/R 0.0110 1.31 0.0008 2-2-4-Trimethylpentane 0.0075 N/R 0.0060 0.73 0.0005 | I-Pentane | 0.3694 | 0.3710 | 0.1360 | 14.78 | 0.0092 |
| 2-3-Dimethylbutane 0.0153 N/R 0.0060 0.73 0.0005 Cyclopentane 0.0159 N/R 0.0050 0.60 0.0004 2-Methylpentane 0.1028 N/R 0.0430 4.88 0.0031 3-Methylpentane 0.0390 N/R 0.0160 1.85 0.0012 C6 0.1300 0.8808 0.0540 6.18 0.0039 Methylcyclopentane 0.1043 N/R 0.0370 4.69 0.0030 Benzene 0.0167 N/R 0.0050 0.62 0.0005 Cyclohexane 0.0494 N/R 0.0170 2.21 0.0014 2-Methylhexane 0.0183 N/R 0.0090 1.00 0.0006 3-Methylhexane 0.0241 N/R 0.0110 1.31 0.0008 2-2-4-Trimethylpentane 0.0075 N/R 0.0040 0.46 0.0003 i-heptanes 0.0138 N/R 0.0060 0.73 0.0005 | N-Pentane | 0.2638 | 0.2649 | 0.0960 | 10.57 | 0.0066 |
| Cyclopentane 0.0159 N/R 0.0050 0.60 0.0004 2-Methylpentane 0.1028 N/R 0.0430 4.88 0.0031 3-Methylpentane 0.0390 N/R 0.0160 1.85 0.0012 C6 0.1300 0.8808 0.0540 6.18 0.0039 Methylcyclopentane 0.1043 N/R 0.0370 4.69 0.0030 Benzene 0.0167 N/R 0.0050 0.62 0.0005 Cyclohexane 0.0494 N/R 0.0170 2.21 0.0014 2-Methylhexane 0.0183 N/R 0.0090 1.00 0.0006 3-Methylhexane 0.0241 N/R 0.0110 1.31 0.0008 2-2-4-Trimethylpentane 0.0075 N/R 0.0040 0.46 0.0003 I-heptanes 0.0138 N/R 0.0060 0.73 0.0005 | Neohexane | 0.0158 | N/R | 0.0070 | 0.75 | 0.0005 |
| 2-Methylpentane 0.1028 N/R 0.0430 4.88 0.0031 3-Methylpentane 0.0390 N/R 0.0160 1.85 0.0012 C6 0.1300 0.8808 0.0540 6.18 0.0039 Methylcyclopentane 0.1043 N/R 0.0370 4.69 0.0030 Benzene 0.0167 N/R 0.0050 0.62 0.0005 Cyclohexane 0.0494 N/R 0.0170 2.21 0.0014 2-Methylhexane 0.0183 N/R 0.0090 1.00 0.0006 3-Methylhexane 0.0241 N/R 0.0110 1.31 0.0008 2-2-4-Trimethylpentane 0.0075 N/R 0.0040 0.46 0.0003 i-heptanes 0.0138 N/R 0.0060 0.73 0.0005 | 2-3-Dimethylbutane | 0.0153 | N/R | 0.0060 | 0.73 | 0.0005 |
| 3-Methylpentane 0.0390 N/R 0.0160 1.85 0.0012 C6 0.1300 0.8808 0.0540 6.18 0.0039 Methylcyclopentane 0.1043 N/R 0.0370 4.69 0.0030 Benzene 0.0167 N/R 0.0050 0.62 0.0005 Cyclohexane 0.0494 N/R 0.0170 2.21 0.0014 2-Methylhexane 0.0183 N/R 0.0090 1.00 0.0006 3-Methylhexane 0.0241 N/R 0.0110 1.31 0.0008 2-2-4-Trimethylpentane 0.0075 N/R 0.0040 0.46 0.0003 i-heptanes 0.0138 N/R 0.0060 0.73 0.0005 | Cyclopentane | 0.0159 | N/R | 0.0050 | 0.60 | 0.0004 |
| 3-Methylpentane 0.0390 N/R 0.0160 1.85 0.0012 C6 0.1300 0.8808 0.0540 6.18 0.0039 Methylcyclopentane 0.1043 N/R 0.0370 4.69 0.0030 Benzene 0.0167 N/R 0.0050 0.62 0.0005 Cyclohexane 0.0494 N/R 0.0170 2.21 0.0014 2-Methylhexane 0.0183 N/R 0.0090 1.00 0.0006 3-Methylhexane 0.0241 N/R 0.0110 1.31 0.0008 2-2-4-Trimethylpentane 0.0075 N/R 0.0040 0.46 0.0003 i-heptanes 0.0138 N/R 0.0060 0.73 0.0005 | 2-Methylpentane | 0.1028 | N/R | 0.0430 | 4.88 | 0.0031 |
| Methylcyclopentane 0.1043 N/R 0.0370 4.69 0.0030 Benzene 0.0167 N/R 0.0050 0.62 0.0005 Cyclohexane 0.0494 N/R 0.0170 2.21 0.0014 2-Methylhexane 0.0183 N/R 0.0090 1.00 0.0006 3-Methylhexane 0.0241 N/R 0.0110 1.31 0.0008 2-2-4-Trimethylpentane 0.0075 N/R 0.0040 0.46 0.0003 I-heptanes 0.0138 N/R 0.0060 0.73 0.0005 | 3-Methylpentane | 0.0390 | N/R | 0.0160 | 1.85 | 0.0012 |
| Methylcyclopentane 0.1043 N/R 0.0370 4.69 0.0030 Benzene 0.0167 N/R 0.0050 0.62 0.0005 Cyclohexane 0.0494 N/R 0.0170 2.21 0.0014 2-Methylhexane 0.0183 N/R 0.0090 1.00 0.0006 3-Methylhexane 0.0241 N/R 0.0110 1.31 0.0008 2-2-4-Trimethylpentane 0.0075 N/R 0.0040 0.46 0.0003 I-heptanes 0.0138 N/R 0.0060 0.73 0.0005 | C6 | 0.1300 | 0.8808 | 0.0540 | 6.18 | 0.0039 |
| Cyclohexane 0.0494 N/R 0.0170 2.21 0.0014 2-Methylhexane 0.0183 N/R 0.0090 1.00 0.0006 3-Methylhexane 0.0241 N/R 0.0110 1.31 0.0008 2-2-4-Trimethylpentane 0.0075 N/R 0.0040 0.46 0.0003 i-heptanes 0.0138 N/R 0.0060 0.73 0.0005 | Methylcyclopentane | 0.1043 | N/R | | | 0.0030 |
| Cyclohexane 0.0494 N/R 0.0170 2.21 0.0014 2-Methylhexane 0.0183 N/R 0.0090 1.00 0.0006 3-Methylhexane 0.0241 N/R 0.0110 1.31 0.0008 2-2-4-Trimethylpentane 0.0075 N/R 0.0040 0.46 0.0003 i-heptanes 0.0138 N/R 0.0060 0.73 0.0005 | Benzene | 0.0167 | N/R | 0.0050 | 0.62 | 0.0005 |
| 2-Methylhexane 0.0183 N/R 0.0090 1.00 0.0006 3-Methylhexane 0.0241 N/R 0.0110 1.31 0.0008 2-2-4-Trimethylpentane 0.0075 N/R 0.0040 0.46 0.0003 i-heptanes 0.0138 N/R 0.0060 0.73 0.0005 | Cyclohexane | 0.0494 | N/R | | | 0.0014 |
| 3-Methylhexane 0.0241 N/R 0.0110 1.31 0.0008 2-2-4-Trimethylpentane 0.0075 N/R 0.0040 0.46 0.0003 i-heptanes 0.0138 N/R 0.0060 0.73 0.0005 | 2-Methylhexane | 0.0183 | N/R | | | 0.0006 |
| 2-2-4-Trimethylpentane 0.0075 N/R 0.0040 0.46 0.0003 i-heptanes 0.0138 N/R 0.0060 0.73 0.0005 | 3-Methylhexane | 0.0241 | N/R | | | 0.0008 |
| i-heptanes 0.0138 N/R 0.0060 0.73 0.0005 | 2-2-4-Trimethylpentane | 0.0075 | N/R | | | 0.0003 |
| 0.0000 N/D | i-heptanes | 0.0138 | N/R | | | 0.0005 |
| | Heptane | 0.0620 | N/R | 0.0290 | 3.41 | 0.0021 |

| Total | 100.00 | 100.423 | 18.647 | 1188.13 | 0.6955 |
|---------------------------------|--------|---------|--------|---------|-----------|
| C12P | 0.0001 | N/R | 0.0000 | 0.01 | 0.0000 |
| C11 | 0.0001 | N/R | 0.0000 | 0.01 | 0.0000 |
| i-C11 | 0.0000 | N/R | 0.0000 | 0.00 | 0.0000 |
| C10 | 0.0007 | N/R | 0.0000 | 0.05 | 0.0000 |
| i-C10 | 0.0020 | N/R | 0.0010 | 0.14 | 0.0001 |
| C9 | 0.0041 | N/R | 0.0020 | 0.29 | 0.0002 |
| i-C9 | 0.0029 | N/R | 0.0010 | 0.19 | 0.0001 |
| o Xylene (& 2,2,4 tmc7) | 0.0012 | N/R | 0.0000 | 0.06 | 0.0000 |
| m, p Xylene | 0.0120 | N/R | 0.0050 | 0.62 | 0.0004 |
| Ethylbenzene | 0.0012 | N/R | 0.0000 | 0.06 | 0.0000 |
| Octane | 0.0245 | N/R | 0.0130 | 1.53 | 0.0010 |
| i-Octanes | 0.0123 | N/R | 0.0060 | 0.74 | 0.0005 |
| 4-Methylheptane | 0.0109 | N/R | 0.0060 | 0.68 | 0.0004 |
| 2-Methylheptane | 0.0230 | N/R | 0.0120 | 1.42 | 0.0009 |
| Toluene | 0.0439 | N/R | 0.0150 | 1.96 | 0.0014 |
| Methylcyclohexane | 0.1233 | N/R | 0.0500 | 6.43 | 0.0042 |
| Received by OCD: 9/1/2023 1:12. | ·13 PM | | | | Page 2 of |

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

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

| COMPRESSIBLITY FACTOR | (1/Z): | 1.0032 | CYLINDER #: | 101 |
|------------------------------|-----------|--------|--------------------|---------------|
| BTU/CU.FT IDEAL: | | 1190.9 | CYLINDER PRESSURE: | 28 PSIG |
| BTU/CU.FT (DRY) CORRECTED FO | OR (1/Z): | 1194.7 | ANALYSIS DATE: | 05/30/2023 |
| BTU/CU.FT (WET) CORRECTED FO | OR (1/Z): | 1173.9 | ANALYIS TIME: | 09:56:53 AM |
| DRY BTU @ 15.025: | | 1218.6 | ANALYSIS RUN BY: | PATRICIA KING |
| REAL SPECIFIC GRAVITY: | | 0.6974 | | |

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: 05/30/2023

GC Method: C12+BTEX Gas



HARVEST MIDSTREAM WELL ANALYSIS COMPARISON

 Lease:
 NORTH CRANDELL
 N/A
 05/30/2023

 Stn. No.:
 33700-10245

Mtr. No.:

| Smpl Date: | 05/26/2023 | 05/06/2022 | 05/24/2021 | 05/14/2020 | 06/06/2019 | 05/02/2019 |
|--------------------------|------------|------------|------------|------------|------------|------------|
| Test Date: | 05/30/2023 | 05/17/2022 | 06/02/2021 | 05/19/2020 | 06/11/2019 | 05/07/2019 |
| Run No: | HM20230056 | HM20220048 | HM2021055 | HM200045 | HM190034 | HM190032 |
| Nitrogen: | 0.1874 | 0.2082 | 0.1781 | 0.1795 | 0.2071 | 0.1519 |
| CO2: | 1.5069 | 1.5380 | 2.1706 | 2.2863 | 2.3204 | 2.4025 |
| Methane: | 84.5208 | 84.8128 | 86.2911 | 85.9311 | 86.4473 | 85.2335 |
| Ethane: | 7.4261 | 7.2122 | 6.3720 | 6.5665 | 6.3638 | 6.9239 |
| | 3.2240 | 3.2033 | 2.6169 | 2.7163 | 2.5851 | 2.8667 |
| Propane: I-Butane: | 0.6545 | 0.6193 | 0.5149 | 0.5291 | 0.4983 | 0.5397 |
| N-Butane: | 0.9700 | 0.9170 | 0.7545 | 0.7545 | 0.7103 | 0.8184 |
| | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0018 | 0.0036 |
| 2,2 dmc3: I-Pentane: | 0.3694 | 0.3641 | 0.2855 | 0.2867 | 0.2727 | 0.2993 |
| | 0.2638 | 0.2736 | 0.2086 | 0.2081 | 0.1931 | 0.2170 |
| N-Pentane: Neohexane: | 0.0158 | 0.0145 | 0.0099 | 0.0082 | 0.0076 | 0.0096 |
| 2-3- | 0.0153 | 0.0161 | 0.0127 | 0.0116 | 0.0100 | 0.0115 |
| Cyclopentane: | 0.0159 | 0.0167 | 0.0132 | 0.0121 | 0.0104 | 0.0119 |
| 2-Methylpentane: | 0.1028 | 0.1082 | 0.0854 | 0.0782 | 0.0670 | 0.0772 |
| 3-Methylpentane: | 0.0390 | 0.0404 | 0.0342 | 0.0330 | 0.0251 | 0.0325 |
| C6: | 0.1300 | 0.1311 | 0.0948 | 0.0833 | 0.0709 | 0.0885 |
| Methylcyclopentane: | 0.1043 | 0.1015 | 0.0713 | 0.0607 | 0.0498 | 0.0658 |
| Benzene: | 0.0167 | 0.0181 | 0.0141 | 0.0113 | 0.0086 | 0.0134 |
| Cyclohexane: | 0.0494 | 0.0492 | 0.0374 | 0.0342 | 0.0235 | 0.0345 |
| 2-Methylhexane: | 0.0183 | 0.0171 | 0.0141 | 0.0140 | 0.0085 | 0.0136 |
| 3-Methylhexane: | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| 2-2-4- | 0.0075 | 0.0063 | 0.0043 | 0.0036 | 0.0021 | 0.0037 |
| i-heptanes: | 0.0138 | 0.0127 | 0.0092 | 0.0091 | 0.0057 | 0.0090 |
| Heptane: | 0.0620 | 0.0548 | 0.0384 | 0.0345 | 0.0220 | 0.0334 |
| Methylcyclohexane: | 0.1233 | 0.1136 | 0.0762 | 0.0673 | 0.0412 | 0.0655 |
| Toluene: | 0.0439 | 0.0410 | 0.0255 | 0.0205 | 0.0119 | 0.0202 |
| 2-Methylheptane: | 0.0230 | 0.0204 | 0.0131 | 0.0119 | 0.0058 | 0.0107 |
| 4-Methylheptane: | 0.0109 | 0.0096 | 0.0064 | 0.0057 | 0.0028 | 0.0053 |
| i-Octanes: | 0.0123 | 0.0099 | 0.0064 | 0.0052 | 0.0030 | 0.0051 |
| Octane: | 0.0245 | 0.0233 | 0.0145 | 0.0127 | 0.0058 | 0.0102 |
| Ethylbenzene: | 0.0012 | 0.0012 | 0.0006 | 0.0004 | 0.0002 | 0.0003 |
| m, p Xylene: | 0.0120 | 0.0151 | 0.0065 | 0.0062 | 0.0035 | 0.0040 |
| o Xylene (& 2,2,4 | 0.0012 | 0.0014 | 0.0006 | 0.0003 | 0.0003 | 0.0003 |
| i-C9: | 0.0029 | 0.0022 | 0.0012 | 0.0012 | 0.0017 | 0.0009 |
| C9: | 0.0041 | 0.0037 | 0.0018 | 0.0025 | 0.0016 | 0.0012 |
| i-C10: | 0.0020 | 0.0008 | 0.0007 | 0.0001 | 0.0007 | 0.0004 |
| C10: | 0.0007 | 0.0005 | 0.0003 | 0.0002 | 0.0015 | 0.0005 |
| i-C11: | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| C11: | 0.0001 | 0.0001 | 0.0000 | 0.0001 | 0.0001 | 0.0000 |
| C12P: | 0.0001 | 0.0001 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| BTU: | 1194.7 | 1189.1 | 1147.3 | 1146.9 | 1134.3 | 1153.3 |
| GPM: | 18.6790 | 18.6330 | 18.3530 | 18.3660 | 18.2720 | 18.4340 |
| SPG: | 0.6974 | 0.6945 | 0.6774 | 0.6789 | 0.6716 | 0.6847 |
| | | | | | | |

HM 20230056

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Contact:_ Remarks:

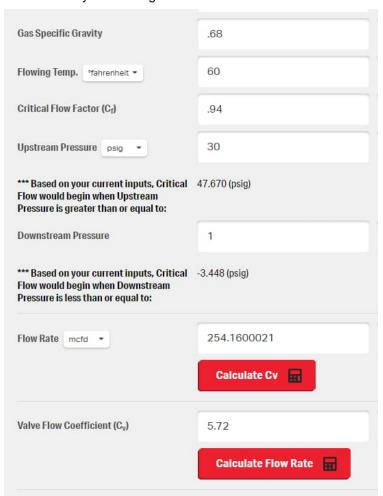
33700-10245

| Line Leak C | ماہ' |
|---------------|------|
| i ine i eak t | .aic |

Maximum Flow Rate
% Open
Pressure
30 psig
Time/date Discovered
Time/date Isolated
Total Hours Blown
254 Mcfd
258
8/7/2023 11:38
8/16/2023 11:30
215.87 hours

Lost Gas From Dump Valve 571.1 Mcf

Online Kimray Gas Sizing Calculator



| 1° Cf & Cv VALUES | | | | |
|-------------------|------------------------|-----------|------|------|
| Line Size | Flow Characteristic | Trim Size | Œ | 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 |
| | | 3/8" | 0.91 | 3.22 |
| | | 1/2" | 0.94 | 5.72 |

1/2" nominal trim size

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District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

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 261439

DEFINITIONS

| Operator: | OGRID: |
|---------------------------|-----------------------------------------------|
| Harvest Four Corners, LLC | 373888 |
| 1755 Arroyo Dr | Action Number: |
| Bloomfield, NM 87413 | 261439 |
| | Action Type: |
| | [C-129] Amend Venting and/or Flaring (C-129A) |

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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State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. **Santa Fe, NM 87505**

QUESTIONS

Action 261439

QUESTIONS

| Operator: | OGRID: |
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QUESTIONS

| Prerequisites | | |
|----------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--|
| Any messages presented in this section, will prevent submission of this application. Please resolve t | hese issues before continuing with the rest of the questions. | |
| Incident Operator | [373888] Harvest Four Corners, LLC | |
| Incident Type | Flare | |
| Incident Status | Closure Not Approved | |
| Incident Well | Unavailable. | |
| Incident Facility | [fAPP2123052765] HARVEST FOUR CORNERS GATHER SYSTEM | |
| Only valid Vent, Flare or Vent with Flaring incidents (selected above in the Application Details section | n) that are assigned to your current operator can be amended with this C-129A application. | |

| 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 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, 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 | Tank (Any) | |
| Additional details for Equipment Involved. Please specify | produced water tank blowing gas upon inspection found first stage suction dump controller hung open | |

| epresentative Compositional Analysis of Vented or Flared Natural Gas | | |
|-------------------------------------------------------------------------------------------------------------------------------|---------------|--|
| Please provide the mole percent for the percentage questions in this group. | | |
| Methane (CH4) percentage | 85 | |
| 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. | |

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QUESTIONS, Page 2

Action 261439

| QUESTIONS (| (continued) | |
|-------------|-------------|--|
| | | |

| Operator: | OGRID: |
|---------------------------|-----------------------------------------------|
| Harvest Four Corners, LLC | 373888 |
| 1755 Arroyo Dr | Action Number: |
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| | Action Type: |
| | [C-129] Amend Venting and/or Flaring (C-129A) |

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 | 08:22 AM |
| Time vent or flare was terminated | 11:30 AM |
| Cumulative hours during this event | 216 |

| Measured or Estimated Volume of Vented or Flared Natural Gas | |
|---------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| Natural Gas Vented (Mcf) Details | Cause: Equipment Failure Tank (Any) Natural Gas Vented Released: 571 Mcf Recovered: 0 Mcf Lost: 571 Mcf. |
| Natural Gas Flared (Mcf) Details | Not answered. |
| Other Released Details | Cause: Other (Specify) Released: 0 (Unknown Released Amount) Recovered: 0 Lost: 0 |
| 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 | |
| Time notified of downstream activity requiring this vent or flare | Not answered. |

| For this event, this operator could not have reasonably anticipated the current event and it was beyond this operator's control | False |
|---------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| Please explain reason for why this event was beyond this operator's control | dump controller hung open, not operating as intended |
| Steps taken to limit the duration and magnitude of vent or flare | upon discovery blocked in and rebuilt controller |
| Corrective actions taken to eliminate the cause and reoccurrence of vent or flare | daily walk throughs prevent reoccurrence. equipment was not operating as intended. |

Action 261439

ACKNOWLEDGMENTS

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| | Action Type: |
| | [C-129] Amend Venting and/or Flaring (C-129A) |

ACKNOWLEDGMENTS

| W. | I acknowledge that with this application I will be amending an existing incident file (assigned to this operator) for a vent or flare event, pursuant to 19.15.27 and 19.15.28 NMAC. |
|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| V | I acknowledge that amending an incident file does not replace original submitted application(s) or information and understand that any C-129 forms submitted to the OCD will be logged and stored as public record. |
| ব | I hereby certify the statements in this amending 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. |
| <u> </u> | 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. |
| V | 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 261439

CONDITIONS

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CONDITIONS

| Created By | Condition | Condition Date |
|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| mosmith | If the information provided in this report requires further amendment(s), submit a [C-129] Amend Venting and/or Flaring Incident (C-129A), utilizing your incident number from this event. | 9/1/2023 |