

District I - (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II - (575) 748-1283
811 S. First St., Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV - (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM 87505

HOBBS OCD

JUL 17 2018

RECEIVED

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

WELL API NO. 30-025-40448
5. Indicate Type of Lease: SURFACE STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/> FED.
6. State Oil & Gas Lease No. NMLC063798
7. Lease Name or Unit Agreement Name RED HILLS AGI
8. Well Number 1
9. OGRID Number 372422
10. Pool name or Wildcat AGI'S EXPLORATORY CHERRY CANYON
4. Well Location Unit Letter <u>I</u> : <u>1600</u> feet from the <u>South</u> line and <u>150</u> feet from the <u>East</u> line Section <u>13</u> Township <u>24S</u> Range <u>33E</u> NMPM County <u>LEA</u>
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3580 ft. GL

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

- PERFORM REMEDIAL WORK PLUG AND ABANDON
 TEMPORARILY ABANDON CHANGE PLANS
 PULL OR ALTER CASING MULTIPLE COMPL
 DOWNHOLE COMMINGLE
 CLOSED-LOOP SYSTEM
 OTHER:

SUBSEQUENT REPORT OF:

- REMEDIAL WORK ALTERING CASING
 COMMENCE DRILLING OPNS. P AND A
 CASING/CEMENT JOB
 OTHER: Inlet Gas Concentration Verification per R-13507F

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Pursuant to discussions with NMOCD technical and legal staff, NMOCD approved Lucid's plan to sample the inlet gas concentrations and volumes at least four times for a period of two months (at least 4 total samples) and calculate corresponding TAG concentrations and volumes during the startup of the Red Hills AGI#1. Lucid did significant additional testing to assure that a representative value could be determined. Based on the available data during this period H2S concentration in the TAG ranged from about 5% to 24% with an average value of about 13% (see Table 1). In addition to calculated TAG concentrations, Lucid took 5 TAG samples to measure H2S concentration directly (see Table 1) which ranged from about 10% to 14% with an average of 11.7%. This report represents the required report required to be provided to NMOCD within 30 days following the initial two-month test period which began in May 2018 and ended in June 2018 and transmits the following:

1. Inlet gas concentrations and volumes from each of the 9 sampling events
2. Calculated TAG concentrations and volumes for each of the 9 sampling events
3. Measured TAG concentrations and volumes for each of 5 TAG sampling events
4. Anticipated range of H2S concentrations in TAG under normal operating conditions.

Attachments A, B and C to this C-103 include all supporting analyses and data. NMOCD requested that sampling be done and reported any time a major source change occurs and every six months normally. These results will be submitted to Santa Fe and the Hobbs District office on a C-103 form to be incorporated into the well file by NMOCD upon receipt.

SEE PAGE 2
MSB.

Based on an analysis of the data attached herein, Lucid anticipates that H2S concentrations in TAG will range between 10% and 15%. Lucid will notify OCD if concentrations differ substantially based on inlet gas changes or gathering system updates.

Spud Date:


Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE  TITLE CONSULTANT TO LUCID DATE 7/9/2018

Type or print name Alberto A. Gutierrez, RG E-mail address: aag@geolex.com PHONE: 505-842-8000
For State Use Only

APPROVED BY: Accepted for Record Only TITLE FILE DATE 7/17/2018
Conditions of Approval (if any):

 7/17/2018



RED HILLS PLANT

TABLE 1 TAG PROPERTIES BASED ON PLANT INLET AND TREATED ACID GAS SAMPLING

	5/7/2018	5/8/2018	5/9/2018	5/10/2018	5/14/2018	5/15/2018	5/16/2018	5/17/2018	6/14/2018	MEASURED AVERAGE FOR STARTUP PERIOD
Enter Inlet Flow in MMCFD	21.603	24.571	11.557	16.976	25.946	22.433	23.025	25.449	25.276	22.248
CALCULATOR 1										
For Data in mole %										
Enter H2S in mole %	0.5293	1.0861	0.4163	0.3572	0.6849	0.765	0.6235	0.2171	0.389	0.563
Enter CO2 in mole %	3.4832	3.476	3.683	3.1426	3.2928	3.5747	3.64	4.3	3.7989	3.599

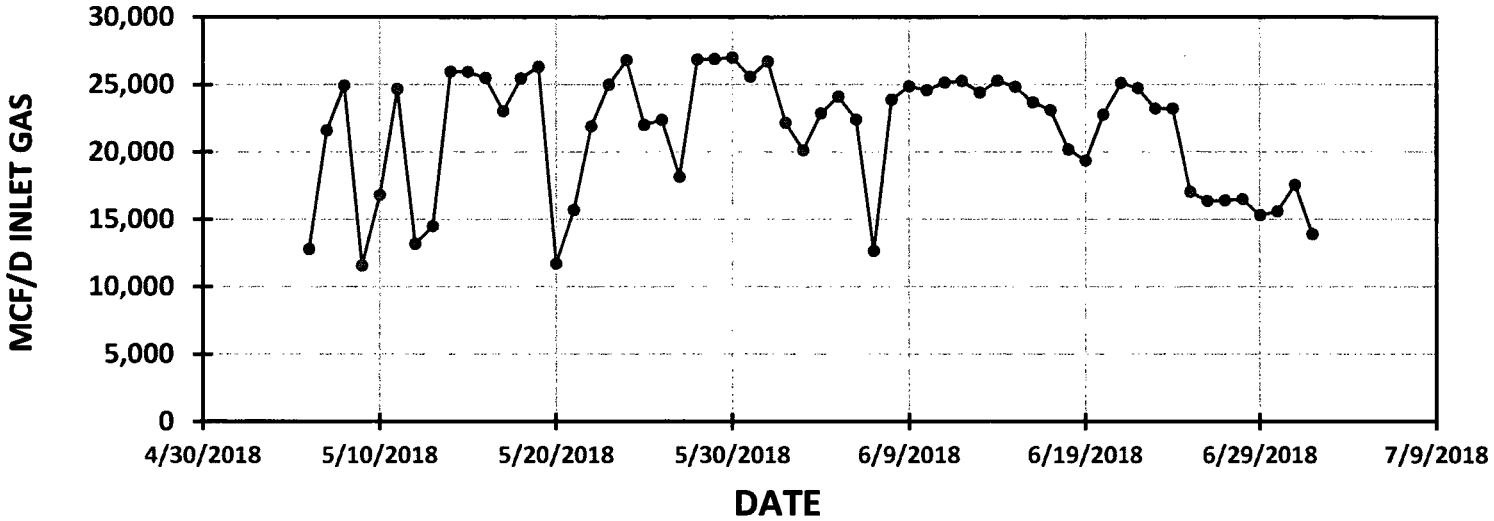
	5/7/2018	5/8/2018	5/9/2018	5/10/2018	6/14/2018	5/15/2018	5/16/2018	5/17/2018	6/14/2018	CALCULATED AVERAGE FOR STARTUP PERIOD
Predicted Total TAG Volume (MMCFD)										
Predicted Total TAG Volume (MMCFD)	0.867	1.157	0.474	0.594	1.059	1.106	0.982	1.150	1.059	0.936
H2S Volume (MMCFD)	0.114	0.271	0.048	0.061	0.098	0.513	0.144	0.055	0.098	0.120
CO2 Volume (MMCFD)	0.752	0.887	0.426	0.533	0.961	0.593	0.838	1.094	0.960	0.816

	5/7/2018	5/8/2018	5/9/2018	5/10/2018	6/14/2018	5/15/2018	5/16/2018	5/17/2018	6/14/2018	CALCULATED AVERAGE FOR STARTUP PERIOD
Calculated TAG Composition										
TAG Composition										
H2S %	13.19%	23.89%	10.16%	10.21%	9.29%	11.15%	14.62%	4.81%	9.29%	12.56%
CO2 %	86.81%	76.10%	89.84%	89.79%	90.71%	88.85%	85.38%	95.19%	90.71%	87.44%

See Attachment A for Original Analytical Data Reports

	5/15/2018	5/16/2018	5/17/2018	5/30/2018	MEASURED AVERAGE FOR STARTUP PERIOD
Measured TAG Composition					
H2S %	10.26%	11.28%	10.27%	12.49%	11.70%
CO2 %	85.25%	84.24%	84.08%	82.73%	83.90%

LUCID DELAWARE LLC
RED HILLS PLANT
INLET GAS RATE (5/6/2018 TO 7/2/2018)

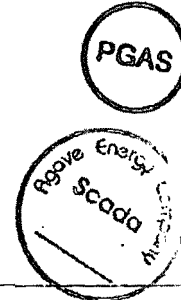


Attachment A Inlet Gas Analyses (9 pp)

EZReporter Default Report

Sample Information

Sample Information	
	Lucid Inlet To AGI
	76
Pressure	854
Sample Number	86118
Operator	T Kirk
Method Name	140134AX.met
Injection Date	2018-05-07 11:13:06
Report Date	2018-05-07 11:18:27
EZReporter Configuration File	Agave Energy Configuration.cfg 3.1.cfg
Source Data File	5729.dat
NGA Phys. Property Data Source	GPA Standard 2145-09 (FPS)
Data Source	EZIQ data system connection



Component Results

Component Name	Ret. Time	Peak Area	Norm%	Gross HV (Dry) (BTU / Ideal cu.ft.)	Relative Gas Density (Dry)	GPM (Dry) (Gal. / 1000 cu.ft.)
Nitrogen	9.840	7465.0	1.3487	0.0	0.01304	0.000
Methane	10.220	321589.0	77.0902	780.4	0.42700	0.000
Carbon Dioxide	15.040	23529.0	3.4832	0.0	0.05293	0.000
Ethane	17.660	64858.0	9.1916	163.0	0.09543	2.466
Hydrogen Sulfide	31.800	3587.0	0.5293	3.4	0.00623	0.072
Propane	56.740	40961.0	4.7373	119.6	0.07213	1.309
i-Butane	22.420	42449.0	0.8357	27.2	0.01677	0.274
n-Butane	23.840	86413.0	1.6582	54.2	0.03328	0.525
i-Pentane	28.500	26256.0	0.4550	18.2	0.01133	0.167
n-Pentane	30.460	21612.0	0.3573	14.4	0.00890	0.130
n-Hexane	0.000	12699.0	0.1883	9.0	0.00560	0.078
n-Heptane	0.000	7116.0	0.0774	4.3	0.00268	0.036
n-Octane	0.000	1588.0	0.0458	2.9	0.00181	0.024
n-Nonane	0.000	340.0	0.0020	0.1	0.00009	0.001
Total:			100.0000	1196.6	0.74721	5.082

Results Summary

Result	Dry
Total Raw Mole% (Dry)	98.2420
Pressure Base (psia)	14.730
Temperature Base	60.0
Gross Heating Value (BTU / Ideal cu.ft.)	1196.6
Gross Heating Value (BTU / Real cu.ft.)	1200.9
Relative Density (G), Real	0.7496
Compressibility (Z) Factor	0.9964
Wobbe Index	1387.1

May 8, 2018

EZReporter Default Report

Sample Information

Sample Information	
Sample Name	Lucid AIG Inlet Gas
Gas Temp	96
Gas Pressure	867
Meter Number	86118
Operator	T Kirk
Method Name	140134AX.met
Injection Date	2018-05-08 15:09:49
Report Date	2018-05-08 15:14:42
EZReporter Configuration File	Agave Energy Configuration.cfg 3.1.cfg
Source Data File	5842.dat
NGA Phys. Property Data Source	GPA Standard 2145-09 (FPS)
Data Source	EZIQ data system connection

Component Results

Component Name	Ret. Time	Peak Area	Norm%	Gross HV (Dry) (BTU / Ideal cu.ft.)	Relative Gas Density (Dry)	GPM (Dry) (Gal. / 1000 cu.ft.)
Nitrogen	9.820	7323.0	1.3186	0.0	0.01275	0.000
Methane	10.200	327117.0	78.1963	791.6	0.43313	0.000
Carbon Dioxide	15.040	23557.0	3.4776	0.0	0.05284	0.000
Ethane	17.680	61399.0	8.6768	153.9	0.09008	2.328
Hydrogen Sulfide	31.740	7379.0	1.0861	6.9	0.01278	0.147
Propane	56.980	35300.0	4.0714	102.7	0.06199	1.125
i-Butane	22.440	37499.0	0.7359	24.0	0.01477	0.242
n-Butane	23.880	70335.0	1.3460	44.0	0.02701	0.426
i-Pentane	28.520	23744.0	0.4111	16.5	0.01024	0.151
n-Pentane	30.480	18291.0	0.3015	12.1	0.00751	0.110
n-Hexane	0.000	12050.0	0.1787	8.5	0.00532	0.074
n-Heptane	0.000	8135.0	0.0883	4.9	0.00305	0.041
n-Octane	0.000	3530.0	0.1015	6.4	0.00400	0.052
n-Nonane	0.000	1878.0	0.0102	0.7	0.00045	0.006
Total			100.0000	1172.2	0.73593	4.701

Results Summary

Result	Dry
Total Raw Mole% (Dry)	98.5160
Pressure Base (psia)	14.730
Temperature Base	60.0
Gross Heating Value (BTU / Ideal cu.ft.)	1172.2
Gross Heating Value (BTU / Real cu.ft.)	1176.2
Relative Density (G), Real	0.7382
Compressibility (Z) Factor	0.9966
Wobbe Index	1369.0

May 9, 2018

EZReporter Default Report

Sample Information

Sample Information	
Sample Name	Lucid AIG Inlet Gas
Gas Temp	96
Gas Pressure	867
Meter Number	86118
Operator	T Kirk
Method Name	140134AX.met
Injection Date	2018-05-09 11:01:40
Report Date	2018-05-09 11:25:43
EZReporter Configuration File	Agave Energy Configuration.cfg 3.1.cfg
Source Data File	5849.dat
NGA Phys. Property Data Source	GPA Standard 2145-09 (FPS)
Data Source	EZIQ data system connection

Component Results

Component Name	Ret. Time	Peak Area	Norm%	Gross HV (Dry) (BTU / Ideal cu.ft.)	Relative Gas Density (Dry)	GPM (Dry) (Gal. / 1000 cu.ft.)
Nitrogen	9.800	8453.0	1.5232	0.0	0.01473	0.000
Methane	10.180	324371.0	77.5691	785.3	0.42966	0.000
Carbon Dioxide	15.020	24637.0	3.6383	0.0	0.05528	0.000
Ethane	17.640	63005.0	8.9074	158.0	0.09248	2.390
Hydrogen Sulfide	31.820	2830.0	0.4163	2.7	0.00490	0.056
Propane	56.940	39961.0	4.6111	116.3	0.07020	1.274
i-Butane	22.440	38449.0	0.7555	24.6	0.01516	0.248
n-Butane	23.880	80594.0	1.5424	50.4	0.03095	0.488
i-Pentane	28.560	22955.0	0.3970	15.9	0.00989	0.146
n-Pentane	30.520	18420.0	0.3036	12.2	0.00756	0.110
n-Hexane	0.000	13648.0	0.2021	9.6	0.00601	0.083
n-Heptane	0.000	7665.0	0.0833	4.6	0.00288	0.039
n-Octane	0.000	1681.0	0.0477	3.0	0.00188	0.025
n-Nonane	0.000	592.0	0.0030	0.2	0.00013	0.002
Total:			100.0000	1182.8	0.74173	4.861

Results Summary

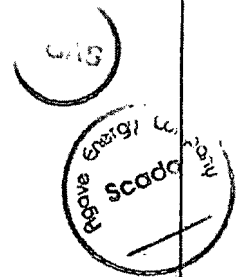
Result	Dry
Total Raw Mole% (Dry)	98.4800
Pressure Base (psia)	14.730
Temperature Base	60.0
Gross Heating Value (BTU / Ideal cu.ft.)	1182.8
Gross Heating Value (BTU / Real cu.ft.)	1186.9
Relative Density (G), Real	0.7440
Compressibility (Z) Factor	0.9965
Wobbe Index	1376.1

MAY 10, 2018

EZReporter Default Report

Sample Information

Sample Information	
Sample Name	Lucid AIG Inlet Gas
Gas Temp	86
Gas Pressure	876
Meter Number	86118
Operator	T Kirk
Method Name	140134AX.met
Injection Date	2018-05-10 09:20:11
Report Date	2018-05-10 09:24:44
EZReporter Configuration File	Agave Energy Configuration.cfg 3.1.cfg
Source Data File	5853.dat
NGA Phys. Property Data Source	GPA Standard 2145-09 (FPS)
Data Source	EZIQ data system connection



Component Results

Component Name	Ret. Time	Peak Area	Norm%	Gross HV (Dry) (BTU / Ideal cu.ft.)	Relative Gas Density (Dry)	GPM (Dry) (Gal. / 1000 cu.ft.)
Nitrogen	9.740	10787.0	1.9205	0.0	0.01858	0.000
Methane	10.140	321827.0	76.0464	769.8	0.42122	0.000
Carbon Dioxide	14.980	21531.0	3.1426	0.0	0.04775	0.000
Ethane	17.580	72075.0	10.0678	178.6	0.10452	2.701
Hydrogen Sulfide	31.820	2456.0	0.3572	2.3	0.00420	0.048
Propane	57.060	45130.0	5.1453	129.8	0.07834	1.422
i-Butane	22.400	36884.0	0.7154	23.3	0.01436	0.235
n-Butane	23.820	84224.0	1.5934	52.1	0.03198	0.504
i-Pentane	28.520	23057.0	0.3943	15.8	0.00982	0.145
n-Pentane	30.480	19033.0	0.3100	12.5	0.00772	0.113
n-Hexane	0.000	12194.0	0.1786	8.5	0.00531	0.074
n-Heptane	0.000	7475.0	0.0803	4.4	0.00278	0.037
n-Octane	0.000	1633.0	0.0462	2.9	0.00182	0.024
n-Nonane	0.000	344.0	0.0020	0.1	0.00009	0.001
Total:			100.0000	1200.1	0.74849	5.304

Results Summary

Result	Dry
Total Raw Mole% (Dry)	99.6640
Pressure Base (psia)	14.730
Temperature Base	60.0
Gross Heating Value (BTU / Ideal cu.ft.)	1200.1
Gross Heating Value (BTU / Real cu.ft.)	1204.4
Relative Density (G), Real	0.7508
Compressibility (Z) Factor	0.9964
Wobbe Index	1390.0

EZReporter Default Report

Sample Information

Sample Information	
Sample Name	Lucid AGI Inlet Gas
Gas Temp	75
Gas Pressure	864
Meter Number	86118
Operator	T Kirk
Method Name	140134AX.met
Injection Date	2018-05-14 10:07:31
Report Date	2018-05-14 10:58:47
EZReporter Configuration File	Agave Energy Configuration.cfg 3.1.cfg
Source Data File	5865.dat
NGA Phys. Property Data Source	GPA Standard 2145-09 (FPS)
Data Source	EZIQ data system connection

Component Results

Component Name	Ret. Time	Peak Area	Norm%	Gross HV (Dry) (BTU / Ideal cu.ft.)	Relative Gas Density (Dry)	GPM (Dry) (Gal. / 1000 cu. ft.)
Nitrogen	9.800	7291.0	1.3110	0.0	0.01268	0.000
Methane	10.180	329050.0	78.5128	794.8	0.43488	0.000
Carbon Dioxide	15.040	22348.0	3.2928	0.0	0.05003	0.000
Ethane	17.680	61865.0	8.7264	154.8	0.09060	2.341
Hydrogen Sulfide	31.820	4659.0	0.6849	4.4	0.00806	0.093
Propane	57.360	36179.0	4.1651	105.0	0.06341	1.151
i-Butane	22.400	40774.0	0.7984	26.0	0.01602	0.262
n-Butane	23.840	76950.0	1.4701	48.1	0.02950	0.465
i-Pentane	28.500	24320.0	0.4195	16.8	0.01045	0.154
n-Pentane	30.460	18202.0	0.2989	12.0	0.00745	0.109
n-Hexane	0.000	12631.0	0.1864	8.9	0.00555	0.077
n-Heptane	0.000	7232.0	0.0780	4.3	0.00270	0.038
n-Octane	0.000	1881.0	0.0537	3.4	0.00212	0.028
n-Nonane	0.000	288.0	0.0020	0.1	0.00009	0.001
Total:			100.0000	1178.6	0.73354	4.717

Results Summary

Result	Dry
Total Raw Mole% (Dry)	98.7000
Pressure Base (psia)	14.730
Temperature Base	60.0
Gross Heating Value (BTU / Ideal cu.ft.)	1178.6
Gross Heating Value (BTU / Real cu.ft.)	1182.7
Relative Density (G), Real	0.7357
Compressibility (Z) Factor	0.9966
Wobbe Index	1378.8

EZReporter Default Report

Sample Information

Sample Information	
Sample Name	Lucid AGI Inlet Gas
Gas Temp	76
Gas Pressure	914
Meter Number	86118
Operator	T Kirk
Method Name	140134AX.met
Injection Date	2018-05-15 12:40:24
Report Date	2018-05-15 12:44:40
EZReporter Configuration File	Agave Energy Configuration.cfg 3.1.cfg
Source Data File	5886.dat
NGA Phys. Property Data Source	GPA Standard 2145-09 (FPS)
Data Source	EZIQ data system connection

Component Results

Component Name	Ret. Time	Peak Area	Norm%	Gross HV (Dry) (BTU / Ideal cu.ft.)	Relative Gas Density (Dry)	GPM (Dry) (Gal. / 1000 cu.ft.)
Nitrogen	9.820	5078.0	0.9277	0.0	0.00897	0.000
Methane	10.200	330427.0	80.1185	811.1	0.44378	0.000
Carbon Dioxide	15.040	23869.0	3.5747	0.0	0.05432	0.000
Ethane	17.740	50759.0	7.2761	129.1	0.07554	1.952
Hydrogen Sulfide	31.760	5132.0	0.7660	4.9	0.00901	0.104
Propane	57.160	33326.0	3.8991	98.3	0.05936	1.078
i-Butane	22.400	41048.0	0.8175	26.6	0.01641	0.268
n-Butane	23.840	73980.0	1.4363	47.0	0.02882	0.454
i-Pentane	28.480	26026.0	0.4561	18.3	0.01136	0.167
n-Pentane	30.440	19938.0	0.3326	13.4	0.00829	0.121
n-Hexane	0.000	13865.0	0.2080	9.9	0.00619	0.086
n-Heptane	0.000	8638.0	0.0947	5.2	0.00328	0.044
n-Octane	0.000	2941.0	0.0855	5.4	0.00337	0.044
n-Nonane	0.000	1241.0	0.0072	0.5	0.00032	0.004
Total:			100.0000	1169.6	0.72902	4.322

Results Summary

Result	Dry
Total Raw Mole% (Dry)	97.1260
Pressure Base (psia)	14.730
Temperature Base	60.0
Gross Heating Value (BTU / Ideal cu.ft.)	1169.6
Gross Heating Value (BTU / Real cu.ft.)	1173.6
Relative Density (G), Real	0.7312
Compressibility (Z) Factor	0.9966
Wobbe Index	1372.5

EZReporter Default Report

Sample Information

Sample Information	
Sample Name	Lucid Red Hills AGI Inlet Gas
Gas Temp	76
Gas Pressure	894
Meter Number	86118
Operator	T Kirk
Method Name	140134AX.met
Injection Date	2018-05-16 10:05:29
Report Date	2018-05-16 10:10:04
EZReporter Configuration File	Agave Energy Configuration.cfg 3.1.cfg
Source Data File	5980.dat
NGA Phys. Property Data Source	GPA Standard 2145-09 (FPS)
Data Source	EZIQ data system connection

Component Results

Component Name	Ret. Time	Peak Area	Norm%	Gross HV (Dry) (BTU / Ideal cu.ft.)	Relative Gas Density (Dry)	GPM (Dry) (Gal. / 1000 cu.ft.)
Nitrogen	9.640	6334.0	1.1002	0.0	0.01064	0.000
Methane	10.020	342770.0	79.0124	799.9	0.43765	0.000
Carbon Dioxide	14.900	25598.0	3.6441	0.0	0.05537	0.000
Ethane	17.580	60649.0	8.2651	146.6	0.08581	2.217
Hydrogen Sulfide	31.820	4394.0	0.6235	4.0	0.00734	0.085
Propane	57.740	37588.0	4.1805	105.4	0.06365	1.155
i-Butane	22.300	40533.0	0.7674	25.0	0.01540	0.252
n-Butane	23.760	71688.0	1.3233	43.3	0.02656	0.419
i-Pentane	28.460	25409.0	0.4238	17.0	0.01056	0.155
n-Pentane	30.460	19316.0	0.3064	12.3	0.00763	0.111
n-Hexane	0.000	13781.0	0.1967	9.4	0.00585	0.081
n-Heptane	0.000	7917.0	0.0822	4.5	0.00284	0.038
n-Octane	0.000	2597.0	0.0715	4.5	0.00282	0.037
n-Nonane	0.000	534.0	0.0029	0.2	0.00013	0.002
Total:			100.0000	1172.1	0.73225	4.552

Results Summary

Result	Dry
Total Raw Mole% (Dry)	102.1650
Pressure Base (psia)	14.730
Temperature Base	60.0
Gross Heating Value (BTU / Ideal cu.ft.)	1172.1
Gross Heating Value (BTU / Real cu.ft.)	1176.1
Relative Density (G), Real	0.7344
Compressibility (Z) Factor	0.9966
Wobbe Index	1372.3

EZReporter Default Report

Sample Information

Sample Information	
Sample Name	Lucid AGI Inlet Gas
Gas Temp	75
Gas Pressure	936
Meter Number	86118
Operator	T Kirk
Method Name	140134AX.met
Injection Date	2018-05-17 09:30:40
Report Date	2018-05-17 09:35:47
EZReporter Configuration File	Agave Energy Configuration.cfg 3.1.cfg
Source Data File	6143.dat
NGA Phys. Property Data Source	GPA Standard 2145-09 (FPS)
Data Source	EZIQ data system connection

Component Results

Component Name	Ret. Time	Peak Area	Norm%	Gross HV (Dry) (BTU / Ideal cu.ft.)	Relative Gas Density (Dry)	GPM (Dry) (Gal. / 1000 cu.ft.)
Nitrogen	9.760	19306.0	3.4755	0.0	0.03362	0.000
Methane	10.160	322848.0	77.1302	780.8	0.42722	0.000
Carbon Dioxide	14.980	29164.0	4.3033	0.0	0.06539	0.000
Ethane	17.680	56666.0	8.0030	142.0	0.08309	2.147
Hydrogen Sulfide	31.840	1478.0	0.2171	1.4	0.00255	0.029
Propane	57.400	34468.0	3.9736	100.2	0.06050	1.098
i-Butane	22.420	36521.0	0.7162	23.3	0.01437	0.235
n-Butane	23.860	67891.0	1.2985	42.5	0.02606	0.411
i-Pentane	28.520	21465.0	0.3713	14.9	0.00925	0.136
n-Pentane	30.480	16149.0	0.2658	10.7	0.00662	0.097
n-Hexane	0.000	10627.0	0.1572	7.5	0.00468	0.065
n-Heptane	0.000	4994.0	0.0538	3.0	0.00186	0.025
n-Octane	0.000	1165.0	0.0335	2.1	0.00132	0.017
n-Nonane	0.000	271.0	0.0010	0.1	0.00004	0.001
Total:			100.0000	1128.4	0.73657	4.260

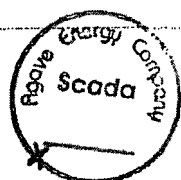
Results Summary


Result	Dry
Total Raw Mole% (Dry)	98.5750
Pressure Base (psia)	14.730
Temperature Base	60.0
Gross Heating Value (BTU / Ideal cu.ft.)	1128.4
Gross Heating Value (BTU / Real cu.ft.)	1132.0
Relative Density (G), Real	0.7386
Compressibility (Z) Factor	0.9968
Wobbe Index	1317.2

EZReporter Default Report

Sample Information

	Sample Information
Sample Name	Lucid AGI Inlet Gas
Gas Temp	86
Gas Pressure	943
Meter Number	86118
Operator	T Kirk
Method Name	140134AX.met
Injection Date	2018-06-14 12:17:51
Report Date	2018-06-14 12:32:22
EZReporter Configuration File	Agave Energy Configuration.cfg 3.1.cfg
Source Data File	6245.dat
NGA Phys. Property Data Source	GPA Standard 2145-09 (FPS)
Data Source	EZIQ data system connection





Component Results

Component Name	Ret. Time	Peak Area	Norm%	Gross HV (Dry) (BTU / Ideal cu.ft.)	Relative Gas Density (Dry)	GPM (Dry) (Gal. / 1000 cu.ft.)
Nitrogen	9.840	16642.0	3.0068	0.0	0.02908	0.000
Methane	10.200	333704.0	80.0185	810.1	0.44322	0.000
Carbon Dioxide	15.020	25651.0	3.7989	0.0	0.05772	0.000
Ethane	17.680	47174.0	6.6876	118.6	0.06943	1.794
Hydrogen Sulfide	31.740	15585.0	0.3890	2.5	0.00458	0.053
Propane	56.420	28842.0	3.3367	84.1	0.05080	0.922
i-Butane	22.520	37714.0	0.7423	24.2	0.01490	0.244
n-Butane	23.980	58882.0	1.1302	37.0	0.02268	0.357
i-Pentane	28.680	22552.0	0.3910	15.7	0.00974	0.143
n-Pentane	30.660	15229.0	0.2515	10.1	0.00627	0.091
n-Hexane	0.000	11297.0	0.1680	8.0	0.00500	0.069
n-Heptane	0.000	5420.0	0.0591	3.3	0.00204	0.027
n-Octane	0.000	4766.0	0.0204	1.3	0.00080	0.010
n-Nonane	0.000	3570.0	0.0000	0.0	0.00000	0.000
Total:			100.0000	1114.8	0.71627	3.711

Results Summary

Result	Dry
Total Raw Mole% (Dry)	98.2120
Pressure Base (psia)	14.730
Temperature Base	60.0
Gross Heating Value (BTU / Ideal cu.ft.)	1114.8
Gross Heating Value (BTU / Real cu.ft.)	1118.2
Relative Density (G), Real	0.7182
Compressibility (Z) Factor	0.9969
Wobbe Index	1319.5

Attachment B - Treated Acid Gas Analyses (5pp.)

EZReporter Default Report

Sample Information

Sample Information	
Sample Name	Lucid AGI Treated Gas
Gas Temp	88
Gas Pressure	11
Meter Number	00009
Operator	T Kirk
Method Name	140134AX.met
Injection Date	2018-05-14 11:43:31
Report Date	2018-05-14 11:47:57
EZReporter Configuration File	Agave Energy Configuration.cfg 3.1.cfg
Source Data File	5871.dat
NGA Phys. Property Data Source	GPA Standard 2145-09 (FPS)
Data Source	EZIQ data system connection

Component Results

Component Name	Ret. Time	Peak Area	Norm%	Gross HV (Dry) (BTU / Ideal cu.ft.)	Relative Gas Density (Dry)	GPM (Dry) (Gal. / 1000 cu.ft.)
Nitrogen	9.920	833.0	0.1612	0.0	0.00156	0.000
Methane	10.580	6998.0	1.7951	18.2	0.00994	0.000
Carbon Dioxide	14.000	525308.0	83.2203	0.0	1.26453	0.000
Ethane	17.980	1472.0	0.2233	4.0	0.00232	0.060
Hydrogen Sulfide	30.620	89913.0	14.2004	90.7	0.16710	1.931
Propane	57.940	787.0	0.0969	2.4	0.00148	0.027
i-Butane	22.368	0.0	0.0000	0.0	0.00000	0.000
n-Butane	24.140	3265.0	0.0675	2.2	0.00135	0.021
i-Pentane	28.740	891.0	0.0163	0.7	0.00041	0.006
n-Pentane	30.720	1305.0	0.0229	0.9	0.00057	0.008
n-Hexane	0.000	1614.0	0.0261	1.2	0.00078	0.011
n-Heptane	0.000	8190.0	0.0948	5.2	0.00328	0.044
n-Octane	0.000	2356.0	0.0730	4.6	0.00288	0.038
n-Nonane	0.000	374.0	0.0022	0.2	0.00010	0.001
Total:			100.0000	130.2	1.45629	2.147

Results Summary

Result	Dry
Total Raw Mole% (Dry)	91.8070
Pressure Base (psia)	14.730
Temperature Base	60.0
Gross Heating Value (BTU / Ideal cu.ft.)	130.2
Gross Heating Value (BTU / Real cu.ft.)	131.0
Relative Density (G), Real	1.4644
Compressibility (Z) Factor	0.9940
Wobbe Index	108.3

EZReporter Default Report

Sample Information

Sample Information	
Sample Name	Lucid AGI Treated Gas
Gas Temp	89
Gas Pressure	11
Meter Number	00009
Operator	T Kirk
Method Name	140134AX.met
Injection Date	2018-05-15 13:26:21
Report Date	2018-05-15 13:31:17
EZReporter Configuration File	Agave Energy Configuration.cfg 3.1.cfg
Source Data File	5976.dat
NGA Phys. Property Data Source	GPA Standard 2145-09 (FPS)
Data Source	EZIQ data system connection

Component Results

Component Name	Ret. Time	Peak Area	Norm%	Gross HV (Dry) (BTU / Ideal cu.ft.)	Relative Gas Density (Dry)	GPM (Dry) (Gal. / 1000 cu.ft.)
Nitrogen	9.940	454.0	0.0829	0.0	0.00080	0.000
Methane	10.580	15090.0	3.6383	36.8	0.02015	0.000
Carbon Dioxide	14.000	531954.0	85.2495	0.0	1.29537	0.000
Ethane	17.980	2282.0	0.3255	5.8	0.00338	0.088
Hydrogen Sulfide	30.840	69103.0	10.2576	65.5	0.12070	1.394
Propane	58.040	1087.0	0.1269	3.2	0.00193	0.035
i-Butane	22.368	0.0	0.0000	0.0	0.00000	0.000
n-Butane	24.160	3644.0	0.0706	2.3	0.00142	0.022
i-Pentane	28.740	1112.0	0.0195	0.8	0.00049	0.007
n-Pentane	30.740	1448.0	0.0235	0.9	0.00059	0.009
n-Hexane	0.000	1244.0	0.0184	0.9	0.00055	0.008
n-Heptane	0.000	8079.0	0.0880	4.9	0.00304	0.041
n-Octane	0.000	3331.0	0.0962	6.0	0.00379	0.050
n-Nonane	0.000	611.0	0.0031	0.2	0.00014	0.002
Total:			100.0000	127.3	1.45234	1.655

Results Summary

Result	Dry
Total Raw Mole% (Dry)	97.6840
Pressure Base (psia)	14.730
Temperature Base	60.0
Gross Heating Value (BTU / Ideal cu.ft.)	127.3
Gross Heating Value (BTU / Real cu.ft.)	128.1
Relative Density (G), Real	1.4602
Compressibility (Z) Factor	0.9942
Wobbe Index	106.0

EZReporter Default Report

Sample Information

Sample Information	
Sample Name	Lucid Red Hills AGI Treated Gas
Gas Temp	85
Gas Pressure	11
Meter Number	00009
Operator	T Kirk
Method Name	140134AX.met
Injection Date	2018-05-16 11:06:56
Report Date	2018-05-16 11:17:07
EZReporter Configuration File	Agave Energy Configuration.cfg 3.1.cfg
Source Data File	5986.dat
NGA Phys. Property Data Source	GPA Standard 2145-09 (FPS)
Data Source	EZIQ data system connection

Component Results

Component Name	Ret. Time	Peak Area	Norm%	Gross HV (Dry) (BTU / Ideal cu.ft.)	Relative Gas Density (Dry)	GPM (Dry) (Gal. / 1000 cu.ft.)
Nitrogen	8.840	1159.0	0.2065	0.0	0.00200	0.000
Methane	11.940	11354.0	2.6811	27.1	0.01485	0.000
Carbon Dioxide	13.940	536707.0	84.2434	0.0	1.28008	0.000
Ethane	17.920	1977.0	0.2757	4.9	0.00286	0.074
Hydrogen Sulfide	30.760	77612.0	11.2840	72.1	0.13278	1.534
Propane	58.040	1806.0	0.2055	5.2	0.00313	0.057
i-Butane	22.580	2754.0	0.0531	1.7	0.00107	0.017
n-Butane	24.100	12508.0	0.2366	7.7	0.00475	0.075
i-Pentane	28.720	7055.0	0.1203	4.8	0.00300	0.044
n-Pentane	30.700	8595.0	0.1394	5.6	0.00347	0.051
n-Hexane	0.000	11272.0	0.1644	7.8	0.00489	0.068
n-Heptane	0.000	22439.0	0.2396	13.2	0.00829	0.111
n-Octane	0.000	5206.0	0.1474	9.2	0.00581	0.076
n-Nonane	0.000	481.0	0.0030	0.2	0.00013	0.002
Total:			100.0000	159.7	1.46711	2.110

Results Summary

Result	Dry
Total Raw Mole% (Dry)	99.7340
Pressure Base (psia)	14.730
Temperature Base	60.0
Gross Heating Value (BTU / Ideal cu.ft.)	159.7
Gross Heating Value (BTU / Real cu.ft.)	160.6
Relative Density (G), Real	1.4755
Compressibility (Z) Factor	0.9939
Wobbe Index	132.2

EZReporter Default Report

Sample Information

Sample Information	
Sample Name	Lucid AGI Treated Gas
Gas Temp	80
Gas Pressure	11
Meter Number	00009
Operator	T Kirk
Method Name	140134AX.met
Injection Date	2018-05-17 09:56:38
Report Date	2018-05-17 10:02:44
EZReporter Configuration File	Agave Energy Configuration.cfg 3.1.cfg
Source Data File	6147.dat
NGA Phys. Property Data Source	GPA Standard 2145-09 (FPS)
Data Source	EZIQ data system connection

Component Results

Component Name	Ret. Time	Peak Area	Norm%	Gross HV (Dry) (BTU / Ideal cu.ft.)	Relative Gas Density (Dry)	GPM (Dry) (Gal. / 1000 cu.ft.)
Nitrogen	9.860	909.0	0.1628	0.0	0.00157	0.000
Methane	10.520	12237.0	2.9138	29.5	0.01614	0.000
Carbon Dioxide	13.940	531258.0	84.0832	0.0	1.27764	0.000
Ethane	17.920	2723.0	0.3832	6.8	0.00398	0.103
Hydrogen Sulfide	30.800	70076.0	10.2731	65.6	0.12088	1.398
Propane	58.080	1875.0	0.2153	5.4	0.00328	0.060
i-Butane	22.368	0.0	0.0000	0.0	0.00000	0.000
n-Butane	24.120	9945.0	0.1891	6.2	0.00379	0.060
i-Pentane	28.740	5713.0	0.0981	3.9	0.00244	0.036
n-Pentane	30.700	7728.0	0.1264	5.1	0.00315	0.046
n-Hexane	0.000	17442.0	0.2568	12.2	0.00764	0.106
n-Heptane	0.000	45526.0	0.4914	27.1	0.01700	0.228
n-Octane	0.000	27292.0	0.7795	48.8	0.03074	0.402
n-Nonane	0.000	5008.0	0.0273	1.9	0.00121	0.015
Total:			100.0000	212.6	1.48948	2.455

Results Summary

Result	Dry
Total Raw Mole% (Dry)	98.9090
Pressure Base (psia)	14.730
Temperature Base	60.0
Gross Heating Value (BTU / Ideal cu.ft.)	212.6
Gross Heating Value (BTU / Real cu.ft.)	214.0
Relative Density (G), Real	1.4987
Compressibility (Z) Factor	0.9934
Wobbe Index	174.8

SHAMROCK GAS ANALYSIS, INC.



LABORATORY REFERENCE NUMBER : E46490 - FT7374

LUCID ENERGY

ID: RED HILLS PLANT ACID GAS
AREA: NOT/REC
METER: RED HILLS PLANT ACID GAS
LEASE: RED HILLS PLANT ACID GAS
OPERATOR: LUCID
STATION: RED HILLS PLANT ACID GAS
SAMPLE DATE: 5/30/2018
SAMPLE OF: GAS

LINE PRESSURE: 11 PSI
LINE TEMPERATURE: 112 F
CYLINDER NUMBER: 6366
EFFECTIVE DATE: 6/1/2018
SAMPLED BY: M. BRENNAN
ANALYZED BY: BRENNAN
ANALYZED DATE: 6/1/2018
SAMPLE TYPE: SPOT

For: LUCID ENERGY
Attn: T. KIRK
288 KINCAID ROAD
ARTESIA, NEW MEXICO 88210

Physical Properties per GPA 2145-09

Calculations per GPA 2172-09

Note: Zero = Less than detection limit

	<u>MOL%</u>	<u>GPM @ 14.73</u>
HYDROGEN SULFIDE	12.493	1.698
NITROGEN	0.041	0.005
CARBON DIOXIDE	82.730	14.198
METHANE	3.962	0.675
ETHANE	0.360	0.097
PROPANE	0.116	0.032
ISOBUTANE	0.006	0.002
N-BUTANE	0.038	0.012
ISOPENTANE	0.012	0.004
N-PENTANE	0.020	0.007
HEXANES PLUS	0.222	0.097
	<u>100.000</u>	<u>16.827</u>

BTU	Vol. Ideal	Vol. Real
	Gas Fuel	Gas Fuel
BTU @ 14.73 PSIA (DRY)	143.3	144.2
BTU @ 14.73 PSIA (SAT.)	140.8	141.7
Specific Gravity	1.4408	1.4486
Compressibility (Z)	0.9941	

Gasoline Content (Gallons Per Thousand - GPM)

Ethane & Heavier	0.251
Propane & Heavier	0.154
Butane & Heavier	0.122
Pentane & Heavier	0.108
Total 26 psi Reid V.P. Gasoline GPM	0.182

Remarks: Field H2S ppm = 124928 (TUTWILER)

Remarks: NO PREVIOUS BTU AVAILABLE

Attachment C Inlet Gas Volumes 5/2-7/2/2018 (2pp)

Timestamp	Red Hills AGI Inlet: Volume Yesterday	Daily Raw [MCF]
5/2/2018 8:00	323.661	
5/3/2018 8:00	323.661	
5/4/2018 8:00	13.04139	
5/5/2018 8:00	18.91601	
5/6/2018 8:00	12771.53	
5/7/2018 8:00	21603.4	
5/8/2018 8:00	24920.59	
5/9/2018 8:00	11556.96	
5/10/2018 8:00	16796.41	
5/11/2018 8:00	24668.02	
5/12/2018 8:00	13159.1	
5/13/2018 8:00	14476.82	
5/14/2018 8:00	25945.09	
5/15/2018 8:00	25925.69	
5/16/2018 8:00	25482.66	
5/17/2018 8:00	23025.53	
5/18/2018 8:00	25449.19	
5/19/2018 8:00	26305.28	
5/20/2018 8:00	11685.5	
5/21/2018 8:00	15672.96	
5/22/2018 8:00	21898.35	
5/23/2018 8:00	24978.27	
5/24/2018 8:00	26798.12	
5/25/2018 8:00	22007.17	
5/26/2018 8:00	22384.07	
5/27/2018 8:00	18147.58	
5/28/2018 8:00	26845.31	
5/29/2018 8:00	26892.47	
5/30/2018 8:00	26979.01	
5/31/2018 8:00	25556.89	
6/1/2018 8:00	26710.81	
6/2/2018 8:00	22159.39	
6/3/2018 8:00	20113.72	
6/4/2018 8:00	22866.96	
6/5/2018 8:00	24107.9	
6/6/2018 8:00	22390.92	
6/7/2018 8:00	12640.49	
6/8/2018 8:00	23868.21	
6/9/2018 8:00	24874.27	
6/10/2018 8:00	24577.78	
6/11/2018 8:00	25131.83	
6/12/2018 8:00	25244.69	
6/13/2018 8:00	24389.58	
6/14/2018 8:00	25275.64	
6/15/2018 8:00	24823.23	
6/16/2018 8:00	23675.33	

6/17/2018 8:00	23100.63
6/18/2018 8:00	20181.38
6/19/2018 8:00	19334.94
6/20/2018 8:00	22771.05
6/21/2018 8:00	25119.85
6/22/2018 8:00	24728.53
6/23/2018 8:00	23218.58
6/24/2018 8:00	23218.58
6/25/2018 8:00	17026.51
6/26/2018 8:00	16351.12
6/27/2018 8:00	16383.85
6/28/2018 8:00	16480.02
6/29/2018 8:00	15295.96
6/30/2018 8:00	15573.84
7/1/2018 8:00	17556.38
7/2/2018 8:00	13879