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State of New Mexico
Energy, Minerals and Natural Resources

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

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)		WELL API NO. 30-025-40448
1. Type of Well: Oil Well ☐ Gas Well ☒ Other Acid Gas Injection		5. Indicate Type of Lease STATE ☐ FEE ☒
2. Name of Operator Lucid Energy Delaware, LLC		6. State Oil & Gas Lease No. NMLC063798
3. Address of Operator 3100 McKinnon Street, Suite 800, Dallas, TX 75201		7. Lease Name or Unit Agreement Name Red Hills AGI
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>		8. Well Number 1
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3580 ft GL		9. OGRID Number 372422
		10. Pool name or Wildcat Exploratory Cherry Canyon

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

NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK ☐	REMEDIAL WORK ☐
TEMPORARILY ABANDON ☐	ALTERING CASING ☐
PULL OR ALTER CASING ☐	COMMENCE DRILLING OPNS. ☐
DOWNHOLE COMMINGLE ☐	P AND A ☐
CLOSED-LOOP SYSTEM ☐	CASING/CEMENT JOB ☐
OTHER: ☐	OTHER: TAG Gas concentration & injection volume 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.

Six month report of TAG composition and injection volumes from the Red Hills Plant being injected into the Red Hills AGI #1 as required by NMOCC Order R-13507 item F and agreements with NMOCD staff.

During the period of July - December 2020 the measured H₂S concentrations in the TAG ranged from about 12.10% to 28.86 % with an average value of about 19.84% as derived from direct sampling and analysis of the TAG entering the well. Appendix A table 1 details the gas analysis of thirteen TAG samples Lucid Energy took during the report period to measure H₂S concentration directly. Average daily TAG volume injected is about 1117 MSCFD for the reporting period.

This report is submitted to fulfill the reporting requirement established by NMOCD for sampling of TAG concentrations every six-months beginning in June 2018. The following information is contained herein:

1. Measured TAG concentrations and volumes for each of eight TAG sampling events (Appendix A, Table 1)
2. Graph of TAG volumes July 1, 2020 – December 31, 2020 (Appendix A, Figure 1)
3. C6+ Gas/Vapor Fractional Analysis report for each sample date (Appendix B)
4. Anticipated range of H₂S concentrations in TAG under normal operating conditions.

Attachment A to this C-103 includes 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.

Based on an analysis of the data attached herein, Lucid Energy anticipates the H₂S concentrations being injected into the Red Hills AGI #1 to range between 12% and 28%. Lucid Energy will notify the NM 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 Matt Eales TITLE VP of EHS&R DATE February 9, 2021

Type or print name Matt Eales E-mail address: meales@lucid-energy.com PHONE: 832-496-7513
For State Use Only

APPROVED BY: _____ TITLE _____ DATE _____
Conditions of Approval (if any): _____

Appendix A: Summarized TAG Concentrations and Injection Volumes for Red Hills AGI #1

TAG Injection Rate July 2020 - December 2020

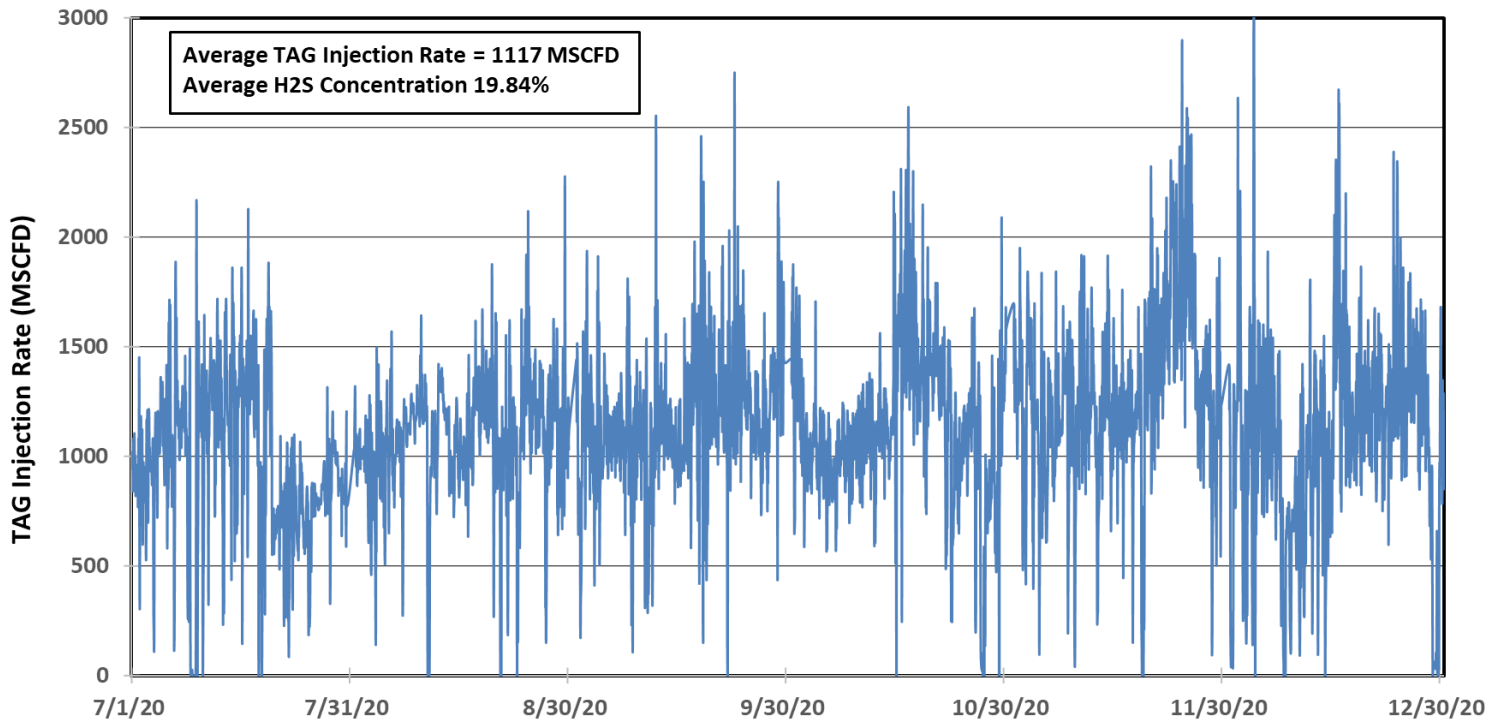


Figure 1: Red Hills AGI #1 TAG Injection Volumes for July - December 2020

	H ₂ S %	CO ₂ %
7/2/2020	13.75%	78.60%
7/17/2020	23.17%	73.11%
7/31/2020	16.13%	82.38%
8/6/2020	16.31%	83.51%
8/28/2020	12.10%	87.43%
9/11/2020	17.59%	81.54%
9/25/2020	28.01%	70.25%
10/9/2020	16.81%	82.29%
10/23/2020	15.01%	83.41%
11/6/2020	28.86%	68.30%
11/20/2020	27.48%	70.42%
12/18/2020	18.48%	79.44%
12/28/2020	24.31%	73.16%
Average	19.84%	77.99%

Table 1: Summary of TAG Concentrations from Thirteen samples for Red Hills AGI #1

Appendix B: Red Hills AGI #1 C6+ Gas/Vapor Fractional Analysis by Date

Pantechs Laboratories, Inc.
Order: 086-846 Order Date: 7/2/2020
Order Description: BiWeekly Collection

SAMPLE ID		COLLECTION DATA	
Operator	Lucid Energy Delaware	Pressure	14 psig
Location	Red Hills Plant	Sample Temp	N/A
Site	AGI Plant	Atm Temp	82 F
Site Type	Station	Collection Date	07/02/2020
Sample Point	Inlet to Compressor	Collection Time	9:26 AM
Spot/Composite	Spot	Collection By	Corey Sherrill
Meter ID		Pressure Base	14.73 psi
Purchaser		Temperature Base	60 F
Fluid	Gas	Container(s)	PLS022 , PLS029

GPA 2261 Gas Fractional Analysis

COMPOUND	FORMULA	MOL%	WT%	GPM
NITROGEN	N2	0.008	0.005	0.001
CARBON DIOXIDE	CO2	78.599	77.195	13.510
HYDROGEN SULFIDE	H2S	13.749	10.456	1.868
METHANE	C1	0.356	0.127	0.061
ETHANE	C2	0.282	0.189	0.076
PROPANE	C3	0.822	0.809	0.228
I-BUTANE	iC4	0.421	0.546	0.139
N-BUTANE	nC4	1.108	1.437	0.352
I-PENTANE	iC5	0.707	1.138	0.261
N-PENTANE	nC5	0.654	1.053	0.239
HEXANES PLUS	C6+	3.294	7.045	1.426
TOTALS:		100.000	100.000	18.161

Value of "0.000" in fractional interpreted as below detectable limit.

If Onsite H2S testing is performed, its resulting value is used in fractional table

LIQUID YIELD	C2+	C3+	C4+	C5+	26# Gasoline
GALLONS/MSCF (GPM)	2.721	2.645	2.417	1.926	2.497

CALCULATED PROPERTIES	BTU/CF	Specific Gr.	Z Factor	Mol Weight	Wobbe Index
DRY	397.86	1.560	0.992	44.811	318.57
WATER SATURATED	392.00	1.544	0.991	44.033	

Onsite Testing by Stain Tube

METHOD	TYPE	MOL%	GRAINS/100	PPMV
GPA2377	H2S	13.7490	8,730.59	138,816.4

Pantechs Laboratories, Inc.
Order: 043-894 Order Date: 7/17/2020
Order Description: BiWeekly Collection

SAMPLE ID		COLLECTION DATA	
Operator	Lucid Energy Delaware	Pressure	9 psig
Location	Red Hills Plant	Sample Temp	N/A
Site	AGI Plant	Atm Temp	88 F
Site Type	Station	Collection Date	07/17/2020
Sample Point	Inlet to Compressor	Collection Time	10:19 AM
Spot/Composite	Spot	Collection By	Cody Carson
Meter ID		Pressure Base	14.73 psi
Purchaser		Temperature Base	60 F
Fluid	Gas	Container(s)	PL1065

GPA 2261 Gas Fractional Analysis

COMPOUND	FORMULA	MOL%	WT%	GPM
NITROGEN	N2	0.006	0.004	0.001
CARBON DIOXIDE	CO2	73.114	75.050	12.557
HYDROGEN SULFIDE	H2S	23.169	18.417	3.145
METHANE	C1	0.136	0.051	0.023
ETHANE	C2	0.158	0.111	0.043
PROPANE	C3	0.224	0.230	0.062
I-BUTANE	iC4	0.140	0.190	0.046
N-BUTANE	nC4	0.460	0.624	0.146
I-PENTANE	iC5	0.413	0.695	0.152
N-PENTANE	nC5	0.443	0.745	0.162
HEXANES PLUS	C6+	1.737	3.883	0.751
TOTALS:		100.000	100.000	17.088

Value of "0.000" in fractional interpreted as below detectable limit.

If Onsite H2S testing is performed, its resulting value is used in fractional table

LIQUID YIELD	C2+	C3+	C4+	C5+	26# Gasoline
GALLONS/MSCF (GPM)	1.362	1.319	1.257	1.065	1.313

CALCULATED PROPERTIES	BTU/CF	Specific Gr.	Z Factor	Mol Weight	Wobbe Index
DRY	305.20	1.491	0.992	42.874	249.93
WATER SATURATED	300.91	1.477	0.992	42.129	

Onsite Testing by Stain Tube

METHOD	TYPE	MOL%	GRAINS/100	PPMV
GPA2377	H2S	23.1686	14,712.07	233,921.9

Pantechs Laboratories, Inc.
Order: 077-937 Order Date: 7/31/2020
Order Description: BiWeekly Collection

SAMPLE ID		COLLECTION DATA	
Operator	Lucid Energy Delaware	Pressure	17 psig
Location	Red Hills Plant	Sample Temp	N/A
Site	AGI Plant	Atm Temp	85 F
Site Type	Station	Collection Date	07/31/2020
Sample Point	Inlet to Compressor	Collection Time	10:14 AM
Spot/Composite	Spot	Collection By	Cody Carson
Meter ID		Pressure Base	14.73 psi
Purchaser		Temperature Base	60 F
Fluid	Gas	Container(s)	PLS018

GPA 2261 Gas Fractional Analysis

COMPOUND	FORMULA	MOL%	WT%	GPM
NITROGEN	N2	0.006	0.004	0.001
CARBON DIOXIDE	CO2	82.379	84.736	14.135
HYDROGEN SULFIDE	H2S	16.129	12.847	2.187
METHANE	C1	0.210	0.079	0.036
ETHANE	C2	0.082	0.058	0.022
PROPANE	C3	0.101	0.104	0.028
I-BUTANE	iC4	0.046	0.062	0.015
N-BUTANE	nC4	0.127	0.173	0.040
I-PENTANE	iC5	0.109	0.184	0.040
N-PENTANE	nC5	0.114	0.192	0.042
HEXANES PLUS	C6+	0.697	1.561	0.301
TOTALS:		100.000	100.000	16.847

Value of "0.000" in fractional interpreted as below detectable limit.

If Onsite H2S testing is performed, its resulting value is used in fractional table

LIQUID YIELD	C2+	C3+	C4+	C5+	26# Gasoline
GALLONS/MSCF (GPM)	0.488	0.466	0.438	0.383	0.462

CALCULATED PROPERTIES	BTU/CF	Specific Gr.	Z Factor	Mol Weight	Wobbe Index
DRY	161.36	1.487	0.993	42.786	132.34
WATER SATURATED	159.51	1.472	0.993	42.042	

Onsite Testing by Stain Tube

METHOD	TYPE	MOL%	GRAINS/100	PPMV
GPA2377	H2S	16.1292	10,242.07	162,848.9

Pantechs Laboratories, Inc.
Order: 083-956 Order Date: 8/6/2020
Order Description: BiWeekly Collection

SAMPLE ID		COLLECTION DATA	
Operator	Lucid Energy Delaware	Pressure	17 psig
Location	Red Hills Plant	Sample Temp	N/A
Site	AGI Plant	Atm Temp	91 F
Site Type	Station	Collection Date	08/06/2020
Sample Point	Inlet to Compressor	Collection Time	11:17 AM
Spot/Composite	Spot	Collection By	Corey Sherrill
Meter ID		Pressure Base	14.73 psi
Purchaser		Temperature Base	60 F
Fluid	Gas	Container(s)	PL2385 , PL2065

GPA 2261 Gas Fractional Analysis

COMPOUND	FORMULA	MOL%	WT%	GPM
NITROGEN	N2	0.102	0.067	0.011
CARBON DIOXIDE	CO2	83.508	86.705	14.323
HYDROGEN SULFIDE	H2S	16.307	13.111	2.211
METHANE	C1	0.030	0.011	0.005
ETHANE	C2	0.000	0.000	0.000
PROPANE	C3	0.002	0.002	0.001
I-BUTANE	iC4	0.002	0.003	0.001
N-BUTANE	nC4	0.006	0.008	0.002
I-PENTANE	iC5	0.004	0.007	0.001
N-PENTANE	nC5	0.004	0.007	0.001
HEXANES PLUS	C6+	0.035	0.079	0.015
TOTALS:		100.000	100.000	16.571

Value of "0.000" in fractional interpreted as below detectable limit.

If Onsite H2S testing is performed, its resulting value is used in fractional table

LIQUID YIELD	C2+	C3+	C4+	C5+	26# Gasoline
GALLONS/MSCF (GPM)	0.021	0.021	0.020	0.017	0.000

CALCULATED PROPERTIES	BTU/CF	Specific Gr.	Z Factor	Mol Weight	Wobbe Index
DRY	107.58	1.472	0.994	42.388	88.66
WATER SATURATED	106.64	1.458	0.993	41.651	

Onsite Testing by Stain Tube

METHOD	TYPE	MOL%	GRAINS/100	PPMV
GPA2377	H2S	16.3068	10,354.83	164,641.8

Pantechs Laboratories, Inc.
Order: 010-1021 Order Date: 8/28/2020
Order Description: Red Hills Plant, BiWeekly Collection

SAMPLE ID		COLLECTION DATA	
Operator	Lucid Energy Delaware	Pressure	17 psig
Location	Red Hills Plant	Sample Temp	N/A
Site	AGI Plant	Atm Temp	85 F
Site Type	Station	Collection Date	08/28/2020
Sample Point	Inlet to Compressor	Collection Time	9:40 AM
Spot/Composite	Spot	Collection By	Corey Sherrill
Meter ID		Pressure Base	14.73 psi
Purchaser		Temperature Base	60 F
Fluid	Gas	Container(s)	PL2373 , PLS017

GPA 2261 Gas Fractional Analysis

COMPOUND	FORMULA	MOL%	WT%	GPM
NITROGEN	N2	0.009	0.006	0.001
CARBON DIOXIDE	CO2	87.425	89.977	14.993
HYDROGEN SULFIDE	H2S	12.097	9.641	1.640
METHANE	C1	0.291	0.109	0.050
ETHANE	C2	0.052	0.037	0.014
PROPANE	C3	0.028	0.029	0.008
I-BUTANE	iC4	0.004	0.005	0.001
N-BUTANE	nC4	0.012	0.016	0.004
I-PENTANE	iC5	0.004	0.007	0.001
N-PENTANE	nC5	0.004	0.007	0.001
HEXANES PLUS	C6+	0.074	0.166	0.032
TOTALS:		100.000	100.000	16.745

Value of "0.000" in fractional interpreted as below detectable limit.

If Onsite H2S testing is performed, its resulting value is used in fractional table

LIQUID YIELD	C2+	C3+	C4+	C5+	26# Gasoline
GALLONS/MSCF (GPM)	0.061	0.047	0.039	0.034	0.041

CALCULATED PROPERTIES	BTU/CF	Specific Gr.	Z Factor	Mol Weight	Wobbe Index
DRY	87.08	1.485	0.994	42.762	71.46
WATER SATURATED	86.49	1.471	0.993	42.018	

Onsite Testing by Stain Tube

METHOD	TYPE	MOL%	GRAINS/100	PPMV
GPA2377	H2S	12.0969	7,681.55	122,136.6

Pantechs Laboratories, Inc.
Order: 031-1052 Order Date: 9/11/2020
Order Description: Red Hills Plant, BiWeekly Collection

SAMPLE ID		COLLECTION DATA	
Operator	Lucid Energy Delaware	Pressure	21 psig
Location	Red Hills Plant	Sample Temp	N/A
Site	AGI Plant	Atm Temp	60 F
Site Type	Station	Collection Date	09/11/2020
Sample Point	Inlet to Compressor	Collection Time	10:04 AM
Spot/Composite	Spot	Collection By	Cody Carson
Meter ID		Pressure Base	14.73 psi
Purchaser		Temperature Base	60 F
Fluid	Gas	Container(s)	PLS012 , PL0460

GPA 2261 Gas Fractional Analysis

COMPOUND	FORMULA	MOL%	WT%	GPM
NITROGEN	N2	0.049	0.032	0.005
CARBON DIOXIDE	CO2	81.539	84.657	13.988
HYDROGEN SULFIDE	H2S	17.588	14.140	2.385
METHANE	C1	0.161	0.061	0.027
ETHANE	C2	0.133	0.094	0.036
PROPANE	C3	0.047	0.049	0.013
I-BUTANE	iC4	0.020	0.027	0.007
N-BUTANE	nC4	0.054	0.074	0.017
I-PENTANE	iC5	0.052	0.089	0.019
N-PENTANE	nC5	0.055	0.094	0.020
HEXANES PLUS	C6+	0.302	0.683	0.130
TOTALS:		100.000	100.000	16.647

Value of "0.000" in fractional interpreted as below detectable limit.

If Onsite H2S testing is performed, its resulting value is used in fractional table

LIQUID YIELD	C2+	C3+	C4+	C5+	26# Gasoline
GALLONS/MSCF (GPM)	0.242	0.206	0.193	0.169	0.203

CALCULATED PROPERTIES	BTU/CF	Specific Gr.	Z Factor	Mol Weight	Wobbe Index
DRY	140.95	1.473	0.994	42.389	116.15
WATER SATURATED	139.45	1.459	0.993	41.653	

Onsite Testing by Stain Tube

METHOD	TYPE	MOL%	GRAINS/100	PPMV
GPA2377	H2S	17.5879	11,168.29	177,575.8

Pantechs Laboratories, Inc.
Order: 084-1100 Order Date: 9/25/2020
Order Description: Red Hills Plant, BiWeekly Collection

SAMPLE ID		COLLECTION DATA	
Operator	Lucid Energy Delaware	Pressure	9 psig
Location	Red Hills Plant	Sample Temp	N/A
Site	AGI Plant	Atm Temp	70 F
Site Type	Station	Collection Date	09/25/2020
Sample Point	Inlet to Compressor	Collection Time	8:58 AM
Spot/Composite	Spot	Collection By	Cody Carson
Meter ID		Pressure Base	14.73 psi
Purchaser		Temperature Base	60 F
Fluid	Gas	Container(s)	PLS026 , PL0128

GPA 2261 Gas Fractional Analysis

COMPOUND	FORMULA	MOL%	WT%	GPM
NITROGEN	N2	0.008	0.005	0.001
CARBON DIOXIDE	CO2	70.250	73.942	12.060
HYDROGEN SULFIDE	H2S	28.010	22.830	3.801
METHANE	C1	0.065	0.025	0.011
ETHANE	C2	0.043	0.031	0.012
PROPANE	C3	0.100	0.105	0.028
I-BUTANE	iC4	0.063	0.088	0.021
N-BUTANE	nC4	0.190	0.264	0.060
I-PENTANE	iC5	0.179	0.309	0.066
N-PENTANE	nC5	0.180	0.311	0.066
HEXANES PLUS	C6+	0.912	2.090	0.394
TOTALS:		100.000	100.000	16.520

Value of "0.000" in fractional interpreted as below detectable limit.

If Onsite H2S testing is performed, its resulting value is used in fractional table

LIQUID YIELD	C2+	C3+	C4+	C5+	26# Gasoline
GALLONS/MSCF (GPM)	0.647	0.635	0.607	0.526	0.636

CALCULATED PROPERTIES	BTU/CF	Specific Gr.	Z Factor	Mol Weight	Wobbe Index
DRY	255.17	1.454	0.993	41.813	211.64
WATER SATURATED	251.73	1.440	0.992	41.086	

Onsite Testing by Stain Tube

METHOD	TYPE	MOL%	GRAINS/100	PPMV
GPA2377	H2S	28.0095	17,786.03	282,797.9

Pantechs Laboratories, Inc.
Order: 018-1138 Order Date: 10/9/2020
Order Description: Red Hills Plant, BiWeekly Collection

SAMPLE ID		COLLECTION DATA	
Operator	Lucid Energy Delaware	Pressure	10 psig
Location	Red Hills Plant	Sample Temp	N/A
Site	AGI Plant	Atm Temp	70 F
Site Type	Station	Collection Date	10/09/2020
Sample Point	Inlet to Compressor	Collection Time	9:48 AM
Spot/Composite	Spot	Collection By	Cody Carson
Meter ID		Pressure Base	14.73 psi
Purchaser		Temperature Base	60 F
Fluid	Gas	Container(s)	PLS033 , PL1834

GPA 2261 Gas Fractional Analysis

COMPOUND	FORMULA	MOL%	WT%	GPM
NITROGEN	N2	0.029	0.019	0.003
CARBON DIOXIDE	CO2	82.287	85.219	14.116
HYDROGEN SULFIDE	H2S	16.806	13.478	2.279
METHANE	C1	0.117	0.044	0.020
ETHANE	C2	0.139	0.098	0.037
PROPANE	C3	0.077	0.080	0.021
I-BUTANE	iC4	0.026	0.036	0.009
N-BUTANE	nC4	0.082	0.112	0.026
I-PENTANE	iC5	0.063	0.107	0.023
N-PENTANE	nC5	0.066	0.112	0.024
HEXANES PLUS	C6+	0.308	0.695	0.133
TOTALS:		100.000	100.000	16.691

Value of "0.000" in fractional interpreted as below detectable limit.

If Onsite H2S testing is performed, its resulting value is used in fractional table

LIQUID YIELD	C2+	C3+	C4+	C5+	26# Gasoline
GALLONS/MSCF (GPM)	0.273	0.236	0.215	0.180	0.224

CALCULATED PROPERTIES	BTU/CF	Specific Gr.	Z Factor	Mol Weight	Wobbe Index
DRY	138.67	1.476	0.994	42.496	114.13
WATER SATURATED	137.20	1.462	0.993	41.757	

Onsite Testing by Stain Tube

METHOD	TYPE	MOL%	GRAINS/100	PPMV
GPA2377	H2S	16.8057	10,671.62	169,678.8

Pantechs Laboratories, Inc.
Order: 066-1192 Order Date: 10/23/2020
Order Description: Red Hills Plant, BiWeekly Collection

SAMPLE ID		COLLECTION DATA	
Operator	Lucid Energy Delaware	Pressure	17 psig
Location	Red Hills Plant	Sample Temp	N/A
Site	AGI Plant	Atm Temp	47 F
Site Type	Station	Collection Date	10/23/2020
Sample Point	Inlet to Compressor	Collection Time	8:57 AM
Spot/Composite	Spot	Collection By	Corey Sherrill
Meter ID		Pressure Base	14.73 psi
Purchaser		Temperature Base	60 F
Fluid	Gas	Container(s)	PLS030 , PLS017

GPA 2261 Gas Fractional Analysis

COMPOUND	FORMULA	MOL%	WT%	GPM
NITROGEN	N2	0.011	0.007	0.001
CARBON DIOXIDE	CO2	83.407	85.560	14.311
HYDROGEN SULFIDE	H2S	15.005	11.920	2.035
METHANE	C1	0.196	0.073	0.033
ETHANE	C2	0.078	0.055	0.021
PROPANE	C3	0.127	0.131	0.035
I-BUTANE	iC4	0.071	0.096	0.023
N-BUTANE	nC4	0.180	0.244	0.057
I-PENTANE	iC5	0.139	0.234	0.051
N-PENTANE	nC5	0.138	0.232	0.050
HEXANES PLUS	C6+	0.648	1.448	0.280
TOTALS:		100.000	100.000	16.897

Value of "0.000" in fractional interpreted as below detectable limit.

If Onsite H2S testing is performed, its resulting value is used in fractional table

LIQUID YIELD	C2+	C3+	C4+	C5+	26# Gasoline
GALLONS/MSCF (GPM)	0.517	0.496	0.461	0.381	0.479

CALCULATED PROPERTIES	BTU/CF	Specific Gr.	Z Factor	Mol Weight	Wobbe Index
DRY	156.74	1.491	0.993	42.902	128.38
WATER SATURATED	154.96	1.476	0.993	42.156	

Onsite Testing by Stain Tube

METHOD	TYPE	MOL%	GRAINS/100	PPMV
GPA2377	H2S	15.0046	9,527.94	151,494.2

Pantechs Laboratories, Inc.
Order: 081-1232 Order Date: 11/6/2020
Order Description: Red Hills Plant, BiWeekly Collection

SAMPLE ID		COLLECTION DATA	
Operator	Lucid Energy Delaware	Pressure	11 psig
Location	Red Hills Plant	Sample Temp	N/A
Site	AGI Plant	Atm Temp	65 F
Site Type	Station	Collection Date	11/06/2020
Sample Point	Inlet to Compressor	Collection Time	9:25 AM
Spot/Composite	Spot	Collection By	Cody Carson
Meter ID		Pressure Base	14.73 psi
Purchaser		Temperature Base	60 F
Fluid	Gas	Container(s)	PL1984 , PLS024

GPA 2261 Gas Fractional Analysis

COMPOUND	FORMULA	MOL%	WT%	GPM
NITROGEN	N2	0.004	0.003	0.000
CARBON DIOXIDE	CO2	68.302	71.627	11.730
HYDROGEN SULFIDE	H2S	28.855	23.432	3.917
METHANE	C1	0.085	0.032	0.015
ETHANE	C2	0.186	0.133	0.050
PROPANE	C3	0.212	0.223	0.059
I-BUTANE	iC4	0.127	0.176	0.042
N-BUTANE	nC4	0.387	0.536	0.123
I-PENTANE	iC5	0.333	0.573	0.123
N-PENTANE	nC5	0.322	0.554	0.118
HEXANES PLUS	C6+	1.187	2.711	0.513
TOTALS:		100.000	100.000	16.690

Value of "0.000" in fractional interpreted as below detectable limit.
If Onsite H2S testing is performed, its resulting value is used in fractional table

LIQUID YIELD	C2+	C3+	C4+	C5+	26# Gasoline
GALLONS/MSCF (GPM)	1.028	0.978	0.919	0.754	0.953

CALCULATED PROPERTIES	BTU/CF	Specific Gr.	Z Factor	Mol Weight	Wobbe Index
DRY	301.39	1.459	0.992	41.967	249.48
WATER SATURATED	297.17	1.446	0.992	41.237	

Onsite Testing by Stain Tube

METHOD	TYPE	MOL%	GRAINS/100	PPMV
GPA2377	H2S	28.8551	18,322.97	291,335.2

Pantechs Laboratories, Inc.
Order: 048-1276 Order Date: 11/20/2020
Order Description: Red Hills Plant, BiWeekly Collection

SAMPLE ID		COLLECTION DATA	
Operator	Lucid Energy Delaware	Pressure	9 psig
Location	Red Hills Plant	Sample Temp	N/A
Site	AGI Plant	Atm Temp	60 F
Site Type	Station	Collection Date	11/20/2020
Sample Point	Inlet to Compressor	Collection Time	9:18 AM
Spot/Composite	Spot	Collection By	Cody Carson
Meter ID		Pressure Base	14.73 psi
Purchaser		Temperature Base	60 F
Fluid	Gas	Container(s)	PL3032 , PLS028

GPA 2261 Gas Fractional Analysis

COMPOUND	FORMULA	MOL%	WT%	GPM
NITROGEN	N2	0.068	0.046	0.008
CARBON DIOXIDE	CO2	70.420	74.091	12.090
HYDROGEN SULFIDE	H2S	27.481	22.390	3.729
METHANE	C1	0.156	0.060	0.027
ETHANE	C2	0.072	0.052	0.019
PROPANE	C3	0.141	0.149	0.039
I-BUTANE	iC4	0.156	0.217	0.051
N-BUTANE	nC4	0.240	0.333	0.076
I-PENTANE	iC5	0.213	0.367	0.079
N-PENTANE	nC5	0.207	0.357	0.076
HEXANES PLUS	C6+	0.846	1.938	0.366
TOTALS:		100.000	100.000	16.560

Value of "0.000" in fractional interpreted as below detectable limit.

If Onsite H2S testing is performed, its resulting value is used in fractional table

LIQUID YIELD	C2+	C3+	C4+	C5+	26# Gasoline
GALLONS/MSCF (GPM)	0.706	0.687	0.648	0.521	0.668

CALCULATED PROPERTIES	BTU/CF	Specific Gr.	Z Factor	Mol Weight	Wobbe Index
DRY	257.93	1.454	0.993	41.829	213.89
WATER SATURATED	254.44	1.440	0.992	41.102	

Onsite Testing by Stain Tube

METHOD	TYPE	MOL%	GRAINS/100	PPMV
GPA2377	H2S	27.4810	17,450.45	277,462.2

Pantechs Laboratories, Inc.
Order: 065-1358 Order Date: 12/18/2020
Order Description: Red Hills Plant, BiWeekly Collection

SAMPLE ID		COLLECTION DATA	
Operator	Lucid Energy Delaware	Pressure	11 psig
Location	Red Hills Plant	Sample Temp	N/A
Site	AGI Plant	Atm Temp	45 F
Site Type	Station	Collection Date	12/18/2020
Sample Point	Inlet to Compressor	Collection Time	12:10 PM
Spot/Composite	Spot	Collection By	Vicente Martinez
Meter ID		Pressure Base	14.73 psi
Purchaser		Temperature Base	60 F
Fluid	Gas	Container(s)	PL2237 , PL2393

GPA 2261 Gas Fractional Analysis

COMPOUND	FORMULA	MOL%	WT%	GPM
NITROGEN	N2	0.009	0.006	0.001
CARBON DIOXIDE	CO2	79.440	81.944	13.633
HYDROGEN SULFIDE	H2S	18.476	14.758	2.506
METHANE	C1	0.258	0.097	0.044
ETHANE	C2	0.095	0.067	0.026
PROPANE	C3	0.140	0.145	0.039
I-BUTANE	iC4	0.156	0.213	0.051
N-BUTANE	nC4	0.230	0.313	0.073
I-PENTANE	iC5	0.201	0.340	0.074
N-PENTANE	nC5	0.213	0.360	0.078
HEXANES PLUS	C6+	0.782	1.757	0.338
TOTALS:		100.000	100.000	16.863

Value of "0.000" in fractional interpreted as below detectable limit.

If Onsite H2S testing is performed, its resulting value is used in fractional table

LIQUID YIELD	C2+	C3+	C4+	C5+	26# Gasoline	10# Gasoline
GAL/MSCF (GPM)	0.679	0.653	0.614	0.490	0.632	0.512

CALCULATED PROPERTIES	BTU/CF	Specific Gr.	Z Factor	Mol Weight	Wobbe Index
DRY	197.41	1.483	0.993	42.665	162.12
WATER SATURATED	194.95	1.469	0.993	41.923	

Onsite Testing by Stain Tube

METHOD	TYPE	MOL%	GRAINS/100	PPMV
GPA2377	H2S	18.4757	11,732.07	186,539.9

Pantechs Laboratories, Inc.
Order: 029-1370 Order Date: 12/28/2020
Order Description: Red Hills Plant, BiWeekly Collection

SAMPLE ID		COLLECTION DATA	
Operator	Lucid Energy Delaware	Pressure	15 psig
Location	Red Hills Plant	Sample Temp	N/A
Site	AGI Plant	Atm Temp	50 F
Site Type	Station	Collection Date	12/28/2020
Sample Point	Inlet to Compressor	Collection Time	10:37 AM
Spot/Composite	Spot	Collection By	Corey Sherrill
Meter ID		Pressure Base	14.73 psi
Purchaser		Temperature Base	60 F
Fluid	Gas	Container(s)	PLS018 , PL2075

GPA 2261 Gas Fractional Analysis

COMPOUND	FORMULA	MOL%	WT%	GPM
NITROGEN	N2	0.028	0.019	0.003
CARBON DIOXIDE	CO2	73.155	76.301	12.559
HYDROGEN SULFIDE	H2S	24.310	19.634	3.299
METHANE	C1	0.340	0.129	0.058
ETHANE	C2	0.127	0.091	0.034
PROPANE	C3	0.179	0.187	0.050
I-BUTANE	iC4	0.088	0.121	0.029
N-BUTANE	nC4	0.266	0.366	0.084
I-PENTANE	iC5	0.230	0.393	0.085
N-PENTANE	nC5	0.252	0.431	0.092
HEXANES PLUS	C6+	1.025	2.328	0.443
TOTALS:		100.000	100.000	16.736

Value of "0.000" in fractional interpreted as below detectable limit.

If Onsite H2S testing is performed, its resulting value is used in fractional table

LIQUID YIELD	C2+	C3+	C4+	C5+	26# Gasoline	10# Gasoline
GAL/MSCF (GPM)	0.817	0.783	0.733	0.620	0.766	0.652

CALCULATED PROPERTIES	BTU/CF	Specific Gr.	Z Factor	Mol Weight	Wobbe Index
DRY	251.94	1.467	0.993	42.196	208.02
WATER SATURATED	248.56	1.453	0.992	41.462	

Onsite Testing by Stain Tube

METHOD	TYPE	MOL%	GRAINS/100	PPMV
GPA2377	H2S	24.3101	15,436.93	245,447.2