Submit 1 Copy To Appropriate District Office
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

State of New Mexico
Energy, Minerals and Natural Resources

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

Form C-103
Revised July 18, 2013

WELL API NO.
30-025-40448

5. Indicate Type of Lease
STATE ☐ FEE ☒

6. State Oil & Gas Lease No.
NMLC063798

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.)

7. Lease Name or Unit Agreement Name
Red Hills AGI

1. Type of Well: Oil Well ☐ Gas Well ☒ Other Acid Gas Injection

8. Well Number 1

2. Name of Operator
Lucid Energy Delaware, LLC

9. OGRID Number
372422

3. Address of Operator
3100 McKinnon Street, Suite 800, Dallas, TX 75201

10. Pool name or Wildcat
Exploratory Cherry Canyon

4. Well Location
Unit Letter I : 1600 feet from the South line and 150 feet from the East line
Section 13 Township 24S Range 33E NMPM County Lea

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:				SUBSEQUENT REPORT OF:			
PERFORM REMEDIAL WORK	☐	PLUG AND ABANDON	☐	REMEDIAL WORK	☐	ALTERING CASING	☐
TEMPORARILY ABANDON	☐	CHANGE PLANS	☐	COMMENCE DRILLING OPNS.	☐	P AND A	☐
PULL OR ALTER CASING	☐	MULTIPLE COMPL	☐	CASING/CEMENT JOB	☐		
DOWNHOLE COMMINGLE	☐						
CLOSED-LOOP SYSTEM	☐						
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 January - June 2022 the measured H_2S concentrations in the TAG ranged from about 11.31% to 23.95% with an average value of about 18.14% as derived from direct sampling and analysis of the TAG entering the well. Appendix A table 1 details the gas analysis of twelve TAG samples Lucid Energy had taken during the report period to measure H_2S concentration directly. Average daily TAG volume injected is about 1480 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 the twelve TAG sampling events (Appendix A, Table 1)
2. Graph of TAG volumes January 1, 2022 – June 30, 2022 (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 H_2S concentrations being injected into the Red Hills AGI #1 to range between 11.31% and 23.95%. Lucid Energy will notify the NM OCD if concentrations differ substantially based on inlet gas chances 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: 7/28/2022

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

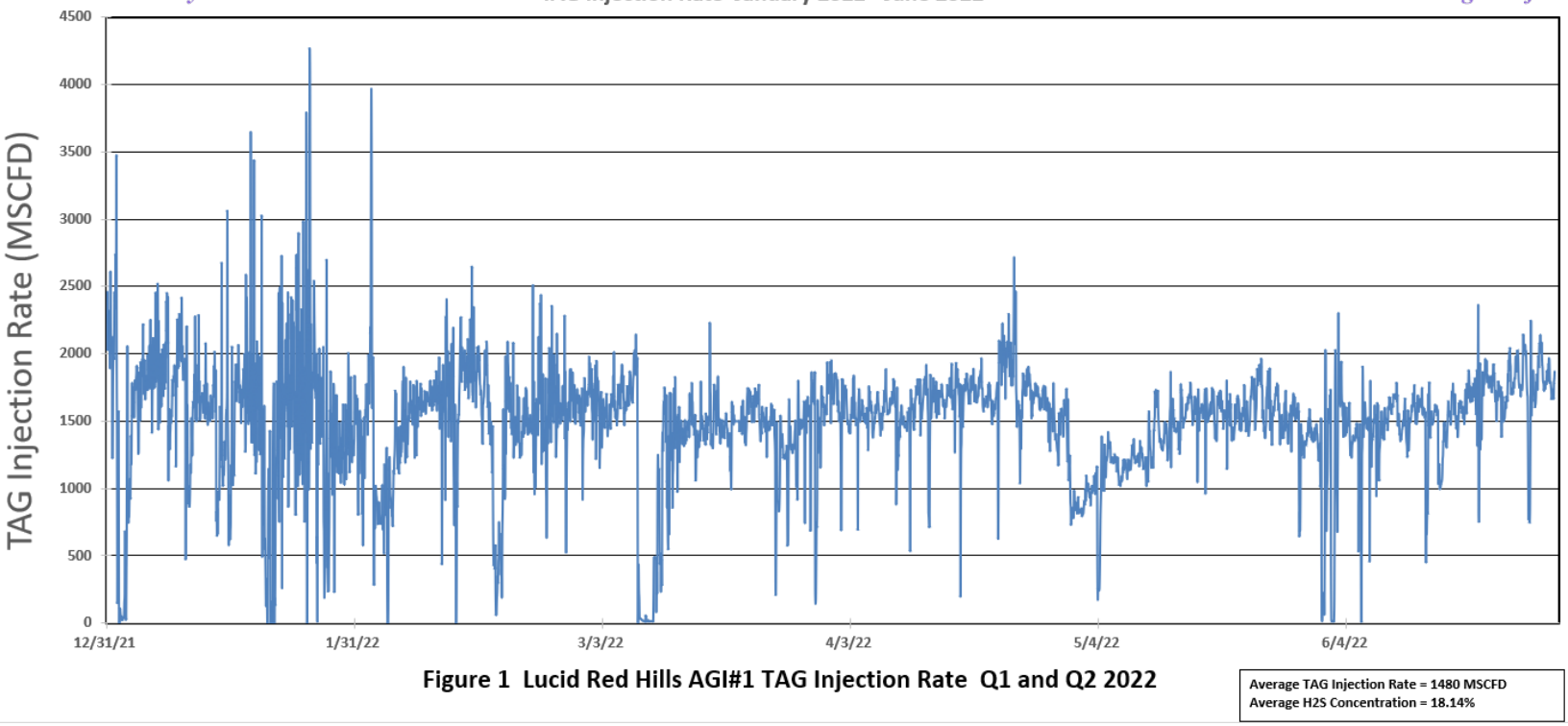

Figure 1 Lucid Red Hills AGI#1 TAG Injection Rate Q1 and Q2 2022

Date	H_2S %	CO_2 %
1/12/2022	18.22	81.19
1/26/2022	14.34	84.98
2/9/2022	23.95	75.63
2/23/2022	17.83	81.72
3/7/2022	16.98	82.19
3/23/2022	22.55	76.89
4/6/2022	23.08	76.29
4/19/2022	19.79	79.36
5/10/2022	14.22	85.19
5/19/2022	19.41	80.10
6/15/2022	11.31	87.95
6/29/2022	15.97	83.65
Average	18.14	81.26

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

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

Pantechs Laboratories, Inc. - Order: 408-2747 - Order Date: 1/12/2022
Order Description: Red Hills Processing Complex, BiWeekly Collection

SAMPLE ID		COLLECTION DATA	
Operator	Lucid Energy Delaware	**Pressure**	12 psig
Location	Red Hills Processing Complex	**Sample Temp**	N/A
Site	AGI Plant	**Atm Temp**	55 F
Site Type	Plant	**Collection Date**	01/12/2022
Sample Point	Inlet to Compressor	**Collection Time**	10:56 AM
Spot/Comp	Spot	**Collection By**	Cody Carson
Meter ID		**Pressure Base**	14.730 psi
Purchaser		**Temperature Base**	60 F
Fluid	Gas	**Container(s)**	PLS026

GPA 2261 Gas Fractional Analysis

COMPOUND	FORMULA	MOL%	WT%	GPM
NITROGEN	N2	0.008	0.005	0.001
CARBON DIOXIDE	CO2	81.188	84.756	13.926
HYDROGEN SULFIDE	H2S	18.224	14.732	2.471
METHANE	C1	0.284	0.108	0.048
ETHANE	C2	0.087	0.062	0.023
PROPANE	C3	0.053	0.055	0.015
I-BUTANE	iC4	0.053	0.073	0.017
N-BUTANE	nC4	0.021	0.029	0.007
I-PENTANE	iC5	0.006	0.010	0.002
N-PENTANE	nC5	0.005	0.009	0.002
HEXANES PLUS	C6+	0.071	0.161	0.031
TOTALS:		**100.000**	**100.000**	**16.543**

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# Liquid	10# Liquid
GAL/MSCF (GPM)	0.097	0.074	0.059	0.035	0.051	0.039

CALCULATED PROPERTIES	BTU/CF	Specific Gr.	Z Factor	Mol Weight	Wobbe IDX
DRY	129.53	1.464	0.994	42.158	107.04
WATER SATURATED	128.22	1.450	0.993	41.425	

Pantechs Laboratories, Inc. - Order: 910-2795 - Order Date: 1/26/2022
Order Description: Red Hills Processing Complex, BiWeekly Collection

SAMPLE ID		COLLECTION DATA	
Operator	Lucid Energy Delaware	**Pressure**	9 psig
Location	Red Hills Processing Complex	**Sample Temp**	N/A
Site	AGI Plant	**Atm Temp**	27 F
Site Type	Plant	**Collection Date**	01/26/2022
Sample Point	Inlet to Compressor	**Collection Time**	10:40 AM
Spot/Comp	Spot	**Collection By**	Cody Carson
Meter ID		**Pressure Base**	14.730 psi
Purchaser		**Temperature Base**	60 F
Fluid	Gas	**Container(s)**	PLS025

GPA 2261 Gas Fractional Analysis

COMPOUND	FORMULA	MOL%	WT%	GPM
NITROGEN	N2	0.134	0.088	0.015
CARBON DIOXIDE	CO2	84.976	88.023	14.574
HYDROGEN SULFIDE	H2S	14.343	11.505	1.944
METHANE	C1	0.335	0.126	0.057
ETHANE	C2	0.087	0.062	0.023
PROPANE	C3	0.049	0.051	0.014
I-BUTANE	iC4	0.008	0.011	0.003
N-BUTANE	nC4	0.018	0.025	0.006
I-PENTANE	iC5	0.004	0.007	0.001
N-PENTANE	nC5	0.004	0.007	0.001
HEXANES PLUS	C6+	0.042	0.095	0.018
TOTALS:		**100.000**	**100.000**	**16.656**

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# Liquid	10# Liquid
GAL/MSCF (GPM)	0.066	0.043	0.029	0.020	0.030	0.022

CALCULATED PROPERTIES	BTU/CF	Specific Gr.	Z Factor	Mol Weight	Wobbe IDX
DRY	101.77	1.476	0.994	42.486	83.78
WATER SATURATED	100.92	1.461	0.993	41.748	

Onsite Testing by Stain Tube

METHOD	TYPE	MOL%	GRAINS/100	PPMV
GPA2377	H2S	15.4422	9,805.81	155,912.4

Pantechs Laboratories, Inc. - Order: 813-2849 - Order Date: 2/9/2022
Order Description: Red Hills Processing Complex, BiWeekly Collection

SAMPLE ID		COLLECTION DATA	
Operator	Lucid Energy Delaware	**Pressure**	11 psig
Location	Red Hills Processing Complex	**Sample Temp**	N/A
Site	AGI Plant	**Atm Temp**	55 F
Site Type	Plant	**Collection Date**	02/09/2022
Sample Point	Inlet to Compressor	**Collection Time**	10:36 AM
Spot/Comp	Spot	**Collection By**	Cody Carson
Meter ID		**Pressure Base**	14.730 psi
Purchaser		**Temperature Base**	60 F
Fluid	Gas	**Container(s)**	PLS010

GPA 2261 Gas Fractional Analysis

COMPOUND	FORMULA	MOL%	WT%	GPM
NITROGEN	N2	0.009	0.006	0.001
CARBON DIOXIDE	CO2	75.627	80.039	12.975
HYDROGEN SULFIDE	H2S	23.951	19.629	3.248
METHANE	C1	0.238	0.092	0.041
ETHANE	C2	0.050	0.036	0.013
PROPANE	C3	0.026	0.028	0.007
I-BUTANE	iC4	0.052	0.073	0.017
N-BUTANE	nC4	0.009	0.013	0.003
I-PENTANE	iC5	0.003	0.005	0.001
N-PENTANE	nC5	0.002	0.003	0.001
HEXANES PLUS	C6+	0.033	0.076	0.014
TOTALS:		**100.000**	**100.000**	**16.321**

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# Liquid	10# Liquid
GAL/MSCF (GPM)	0.056	0.043	0.036	0.016	0.024	0.018

CALCULATED PROPERTIES	BTU/CF	Specific Gr.	Z Factor	Mol Weight	Wobbe IDX
DRY	161.88	1.445	0.993	41.584	134.68
WATER SATURATED	160.01	1.431	0.993	40.861	

Onsite Testing by Stain Tube

METHOD	TYPE	MOL%	GRAINS/100	PPMV
GPA2377	H2S	23.9508	15,208.74	241,819.0

Pantechs Laboratories, Inc. - Order: 642-2902 - Order Date: 2/23/2022
Order Description: Red Hills Processing Complex, BiWeekly Collection

SAMPLE ID		COLLECTION DATA	
Operator	Lucid Energy Delaware	**Pressure**	14 psig
Location	Red Hills Processing Complex	**Sample Temp**	N/A
Site	AGI Plant	**Atm Temp**	36 F
Site Type	Plant	**Collection Date**	02/23/2022
Sample Point	Inlet to Compressor	**Collection Time**	1:54 PM
Spot/Comp	Spot	**Collection By**	Cody Carson
Meter ID		**Pressure Base**	14.730 psi
Purchaser		**Temperature Base**	60 F
Fluid	Gas	**Container(s)**	PLS028

GPA 2261 Gas Fractional Analysis

COMPOUND	FORMULA	MOL%	WT%	GPM
NITROGEN	N2	0.016	0.011	0.002
CARBON DIOXIDE	CO2	81.720	85.275	14.017
HYDROGEN SULFIDE	H2S	17.825	14.404	2.417
METHANE	C1	0.273	0.104	0.047
ETHANE	C2	0.060	0.043	0.016
PROPANE	C3	0.027	0.028	0.007
I-BUTANE	iC4	0.038	0.052	0.013
N-BUTANE	nC4	0.008	0.011	0.003
I-PENTANE	iC5	0.002	0.003	0.001
N-PENTANE	nC5	0.002	0.003	0.001
HEXANES PLUS	C6+	0.029	0.066	0.013
TOTALS:		**100.000**	**100.000**	**16.537**

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# Liquid	10# Liquid
GAL/MSCF (GPM)	0.054	0.038	0.031	0.015	0.022	0.017

CALCULATED PROPERTIES	BTU/CF	Specific Gr.	Z Factor	Mol Weight	Wobbe IDX
DRY	122.29	1.465	0.994	42.175	101.04
WATER SATURATED	121.10	1.451	0.993	41.442	

Onsite Testing by Stain Tube

METHOD	TYPE	MOL%	GRAINS/100	PPMV
GPA2377	H2S	17.8246	11,318.63	179,966.2

Pantechs Laboratories, Inc. - Order: 863-2953 - Order Date: 3/7/2022
Order Description: Red Hills Processing Complex, BiWeekly Collection

SAMPLE ID		COLLECTION DATA	
Operator	Lucid Energy Delaware	**Pressure**	9 psig
Location	Red Hills Processing Complex	**Sample Temp**	N/A
Site	AGI Plant	**Atm Temp**	42 F
Site Type	Plant	**Collection Date**	03/07/2022
Sample Point	Inlet to Compressor	**Collection Time**	11:42 AM
Spot/Comp	Spot	**Collection By**	Cody Carson
Meter ID		**Pressure Base**	14.730 psi
Purchaser		**Temperature Base**	60 F
Fluid	Gas	**Container(s)**	PLS028

GPA 2261 Gas Fractional Analysis

COMPOUND	FORMULA	MOL%	WT%	GPM
NITROGEN	N2	0.170	0.113	0.019
CARBON DIOXIDE	CO2	82.189	85.577	14.097
HYDROGEN SULFIDE	H2S	16.979	13.690	2.302
METHANE	C1	0.320	0.121	0.055
ETHANE	C2	0.066	0.047	0.018
PROPANE	C3	0.034	0.035	0.009
I-BUTANE	iC4	0.087	0.120	0.029
N-BUTANE	nC4	0.017	0.023	0.005
I-PENTANE	iC5	0.059	0.101	0.022
N-PENTANE	nC5	0.010	0.017	0.004
HEXANES PLUS	C6+	0.069	0.156	0.030
TOTALS:		**100.000**	**100.000**	**16.590**

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# Liquid	10# Liquid
GAL/MSCF (GPM)	0.117	0.099	0.090	0.056	0.074	0.052

CALCULATED PROPERTIES	BTU/CF	Specific Gr.	Z Factor	Mol Weight	Wobbe IDX
DRY	124.26	1.468	0.994	42.268	102.55
WATER SATURATED	123.03	1.454	0.993	41.533	

Onsite Testing by Stain Tube

METHOD	TYPE	MOL%	GRAINS/100	PPMV
GPA2377	H2S	16.9790	10,781.69	171,428.9

Pantechs Laboratories, Inc. - Order: 320-3032 - Order Date: 3/23/2022
Order Description: Red Hills Processing Complex, BiWeekly Collection

SAMPLE ID		COLLECTION DATA	
Operator	Lucid Energy Delaware	**Pressure**	15 psig
Location	Red Hills Processing Complex	**Sample Temp**	N/A
Site	AGI Plant	**Atm Temp**	48 F
Site Type	Plant	**Collection Date**	03/23/2022
Sample Point	Inlet to Compressor	**Collection Time**	11:03 AM
Spot/Comp	Spot	**Collection By**	Cody Carson
Meter ID		**Pressure Base**	14.730 psi
Purchaser		**Temperature Base**	60 F
Fluid	Gas	**Container(s)**	PLS026

GPA 2261 Gas Fractional Analysis

COMPOUND	FORMULA	MOL%	WT%	GPM
NITROGEN	N2	0.021	0.014	0.002
CARBON DIOXIDE	CO2	76.890	81.136	13.191
HYDROGEN SULFIDE	H2S	22.551	18.427	3.058
METHANE	C1	0.314	0.121	0.054
ETHANE	C2	0.080	0.058	0.022
PROPANE	C3	0.046	0.049	0.013
I-BUTANE	iC4	0.012	0.017	0.004
N-BUTANE	nC4	0.017	0.024	0.005
I-PENTANE	iC5	0.005	0.009	0.002
N-PENTANE	nC5	0.004	0.007	0.001
HEXANES PLUS	C6+	0.060	0.138	0.026
TOTALS:		**100.000**	**100.000**	**16.378**

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# Liquid	10# Liquid
GAL/MSCF (GPM)	0.073	0.051	0.038	0.029	0.039	0.032

CALCULATED PROPERTIES	BTU/CF	Specific Gr.	Z Factor	Mol Weight	Wobbe IDX
DRY	155.23	1.449	0.994	41.706	128.96
WATER SATURATED	153.48	1.435	0.993	40.981	

Onsite Testing by Stain Tube

METHOD	TYPE	MOL%	GRAINS/100	PPMV
GPA2377	H2S	22.5514	14,320.11	227,689.7

Pantechs Laboratories, Inc. - Order: 507-3086 - Order Date: 4/6/2022
Order Description: Red Hills Processing Complex, BiWeekly Collection

SAMPLE ID		COLLECTION DATA	
Operator	Lucid Energy Delaware	**Pressure**	13 psig
Location	Red Hills Processing Complex	**Sample Temp**	N/A
Site	AGI Plant	**Atm Temp**	60 F
Site Type	Plant	**Collection Date**	04/06/2022
Sample Point	Inlet to Compressor	**Collection Time**	11:12 AM
Spot/Comp	Spot	**Collection By**	Mike McKinney
Meter ID		**Pressure Base**	14.730 psi
Purchaser		**Temperature Base**	60 F
Fluid	Gas	**Container(s)**	PLS010

GPA 2261 Gas Fractional Analysis

COMPOUND	FORMULA	MOL%	WT%	GPM
NITROGEN	N2	0.010	0.007	0.001
CARBON DIOXIDE	CO2	76.286	80.555	13.088
HYDROGEN SULFIDE	H2S	23.084	18.876	3.130
METHANE	C1	0.305	0.117	0.052
ETHANE	C2	0.090	0.065	0.024
PROPANE	C3	0.057	0.060	0.016
I-BUTANE	iC4	0.040	0.056	0.013
N-BUTANE	nC4	0.025	0.035	0.008
I-PENTANE	iC5	0.008	0.014	0.003
N-PENTANE	nC5	0.006	0.010	0.002
HEXANES PLUS	C6+	0.089	0.205	0.038
TOTALS:		**100.000**	**100.000**	**16.375**

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# Liquid	10# Liquid
GAL/MSCF (GPM)	0.104	0.080	0.064	0.043	0.063	0.047

CALCULATED PROPERTIES	BTU/CF	Specific Gr.	Z Factor	Mol Weight	Wobbe IDX
DRY	161.94	1.448	0.993	41.678	134.58
WATER SATURATED	160.08	1.434	0.993	40.953	

Onsite Testing by Stain Tube

METHOD	TYPE	MOL%	GRAINS/100	PPMV
GPA2377	H2S	23.0841	14,658.38	233,068.2

Pantechs Laboratories, Inc. - Order: 320-3146 - Order Date: 4/19/2022
Order Description: Red Hills Processing Complex, BiWeekly Collection

SAMPLE ID		COLLECTION DATA	
Operator	Lucid Energy Delaware	**Pressure**	12 psig
Location	Red Hills Processing Complex	**Sample Temp**	N/A
Site	AGI Plant	**Atm Temp**	60 F
Site Type	Plant	**Collection Date**	04/19/2022
Sample Point	Inlet to Compressor	**Collection Time**	8:58 AM
Spot/Comp	Spot	**Collection By**	Mike McKinney
Meter ID		**Pressure Base**	14.730 psi
Purchaser		**Temperature Base**	60 F
Fluid	Gas	**Container(s)**	PL3013

GPA 2261 Gas Fractional Analysis

COMPOUND	FORMULA	MOL%	WT%	GPM
NITROGEN	N2	0.132	0.088	0.015
CARBON DIOXIDE	CO2	79.364	83.181	13.614
HYDROGEN SULFIDE	H2S	19.786	16.059	2.683
METHANE	C1	0.345	0.132	0.059
ETHANE	C2	0.086	0.062	0.023
PROPANE	C3	0.052	0.055	0.014
I-BUTANE	iC4	0.082	0.114	0.027
N-BUTANE	nC4	0.029	0.040	0.009
I-PENTANE	iC5	0.009	0.015	0.003
N-PENTANE	nC5	0.015	0.026	0.005
HEXANES PLUS	C6+	0.100	0.228	0.043
TOTALS:		**100.000**	**100.000**	**16.495**

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# Liquid	10# Liquid
GAL/MSCF (GPM)	0.124	0.101	0.087	0.051	0.074	0.055

CALCULATED PROPERTIES	BTU/CF	Specific Gr.	Z Factor	Mol Weight	Wobbe IDX
DRY	143.43	1.459	0.994	41.990	118.76
WATER SATURATED	141.88	1.445	0.993	41.260	

Onsite Testing by Stain Tube

METHOD	TYPE	MOL%	GRAINS/100	PPMV
GPA2377	H2S	19.7863	12,564.32	199,772.7

Pantechs Laboratories, Inc. - Order: 595-3231 - Order Date: 5/10/2022
Order Description: Red Hills Processing Complex, Resample of AGI

SAMPLE ID		COLLECTION DATA	
Operator	Lucid Energy Delaware	**Pressure**	16 psig
Location	Red Hills Processing Complex	**Sample Temp**	N/A
Site	AGI Plant	**Atm Temp**	82 F
Site Type	Plant	**Collection Date**	05/10/2022
Sample Point	Inlet to Compressor	**Collection Time**	9:17 AM
Spot/Comp	Spot	**Collection By**	Cody Carson
Meter ID		**Pressure Base**	14.730 psi
Purchaser		**Temperature Base**	60 F
Fluid	Gas	**Container(s)**	PLS028 , PL0495

GPA 2261 Gas Fractional Analysis

COMPOUND	FORMULA	MOL%	WT%	GPM
NITROGEN	N2	0.052	0.034	0.006
CARBON DIOXIDE	CO2	85.188	88.096	14.610
HYDROGEN SULFIDE	H2S	14.220	11.387	1.928
METHANE	C1	0.277	0.104	0.047
ETHANE	C2	0.079	0.056	0.021
PROPANE	C3	0.046	0.048	0.013
I-BUTANE	iC4	0.013	0.018	0.004
N-BUTANE	nC4	0.020	0.027	0.006
I-PENTANE	iC5	0.005	0.008	0.002
N-PENTANE	nC5	0.005	0.008	0.002
HEXANES PLUS	C6+	0.095	0.214	0.041
TOTALS:		**100.000**	**100.000**	**16.680**

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# Liquid	10# Liquid
GAL/MSCF (GPM)	0.089	0.068	0.055	0.045	0.057	0.050

CALCULATED PROPERTIES	BTU/CF	Specific Gr.	Z Factor	Mol Weight	Wobbe IDX
DRY	103.28	1.478	0.994	42.558	84.95
WATER SATURATED	102.41	1.464	0.993	41.818	

Pantechs Laboratories, Inc. - Order: 885-3262 - Order Date: 5/19/2022
Order Description: Red Hills Processing Complex, BiWeekly Collection

SAMPLE ID		COLLECTION DATA	
Operator	Lucid Energy Delaware	**Pressure**	12 psig
Location	Red Hills Processing Complex	**Sample Temp**	N/A
Site	AGI Plant	**Atm Temp**	80 F
Site Type	Plant	**Collection Date**	05/19/2022
Sample Point	Inlet to Compressor	**Collection Time**	8:35 AM
Spot/Comp	Spot	**Collection By**	Mike McKinney
Meter ID		**Pressure Base**	14.730 psi
Purchaser		**Temperature Base**	60 F
Fluid	Gas	**Container(s)**	PLS004

GPA 2261 Gas Fractional Analysis

COMPOUND	FORMULA	MOL%	WT%	GPM
NITROGEN	N2	0.157	0.105	0.017
CARBON DIOXIDE	CO2	80.102	83.884	13.740
HYDROGEN SULFIDE	H2S	19.406	15.737	2.631
METHANE	C1	0.189	0.072	0.032
ETHANE	C2	0.045	0.032	0.012
PROPANE	C3	0.024	0.025	0.007
I-BUTANE	iC4	0.024	0.033	0.008
N-BUTANE	nC4	0.008	0.011	0.003
I-PENTANE	iC5	0.004	0.007	0.001
N-PENTANE	nC5	0.000	0.000	0.000
HEXANES PLUS	C6+	0.041	0.094	0.018
TOTALS:		**100.000**	**100.000**	**16.469**

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# Liquid	10# Liquid
GAL/MSCF (GPM)	0.049	0.037	0.030	0.019	0.028	0.021

CALCULATED PROPERTIES	BTU/CF	Specific Gr.	Z Factor	Mol Weight	Wobbe IDX
DRY	131.43	1.460	0.994	42.026	108.78
WATER SATURATED	130.08	1.446	0.993	41.295	

Pantechs Laboratories, Inc. - Order: 148-3362 - Order Date: 6/15/2022
Order Description: Red Hills Processing Complex, BiWeekly Collection

SAMPLE ID		COLLECTION DATA	
Operator	Lucid Energy Delaware	**Pressure**	12 psig
Location	Red Hills Processing Complex	**Sample Temp**	N/A
Site	AGI Plant	**Atm Temp**	75 F
Site Type	Plant	**Collection Date**	06/15/2022
Sample Point	Inlet to Compressor	**Collection Time**	8:14 AM
Spot/Comp	Spot	**Collection By**	Mike McKinney
Meter ID		**Pressure Base**	14.730 psi
Purchaser		**Temperature Base**	60 F
Fluid	Gas	**Container(s)**	PLS020

GPA 2261 Gas Fractional Analysis

COMPOUND	FORMULA	MOL%	WT%	GPM
NITROGEN	N2	0.020	0.013	0.002
CARBON DIOXIDE	CO2	87.946	90.403	15.082
HYDROGEN SULFIDE	H2S	11.310	9.003	1.533
METHANE	C1	0.406	0.152	0.069
ETHANE	C2	0.100	0.070	0.027
PROPANE	C3	0.058	0.060	0.016
I-BUTANE	iC4	0.038	0.052	0.013
N-BUTANE	nC4	0.022	0.030	0.007
I-PENTANE	iC5	0.006	0.010	0.002
N-PENTANE	nC5	0.005	0.008	0.002
HEXANES PLUS	C6+	0.089	0.199	0.038
TOTALS:		**100.000**	**100.000**	**16.791**

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# Liquid	10# Liquid
GAL/MSCF (GPM)	0.105	0.078	0.062	0.042	0.062	0.046

CALCULATED PROPERTIES	BTU/CF	Specific Gr.	Z Factor	Mol Weight	Wobbe IDX
DRY	87.17	1.487	0.994	42.814	71.49
WATER SATURATED	86.57	1.473	0.993	42.070	

Pantechs Laboratories, Inc. - Order: 119-3411 - Order Date: 6/29/2022
Order Description: Red Hills Processing Complex, BiWeekly Collection

SAMPLE ID		COLLECTION DATA	
Operator	Lucid Energy Delaware	**Pressure**	12 psig
Location	Red Hills Processing Complex	**Sample Temp**	N/A
Site	AGI Plant	**Atm Temp**	65 F
Site Type	Plant	**Collection Date**	06/29/2022
Sample Point	Inlet to Compressor	**Collection Time**	8:08 AM
Spot/Comp	Spot	**Collection By**	Mike McKinney
Meter ID		**Pressure Base**	14.730 psi
Purchaser		**Temperature Base**	60 F
Fluid	Gas	**Container(s)**	PLS028

GPA 2261 Gas Fractional Analysis

COMPOUND	FORMULA	MOL%	WT%	GPM
NITROGEN	N2	0.009	0.006	0.001
CARBON DIOXIDE	CO2	83.648	86.865	14.347
HYDROGEN SULFIDE	H2S	15.965	12.838	2.164
METHANE	C1	0.230	0.087	0.039
ETHANE	C2	0.056	0.040	0.015
PROPANE	C3	0.022	0.023	0.006
I-BUTANE	iC4	0.009	0.012	0.003
N-BUTANE	nC4	0.007	0.010	0.002
I-PENTANE	iC5	0.002	0.003	0.001
N-PENTANE	nC5	0.002	0.003	0.001
HEXANES PLUS	C6+	0.050	0.113	0.022
TOTALS:		**100.000**	**100.000**	**16.601**

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# Liquid	10# Liquid
GAL/MSCF (GPM)	0.050	0.035	0.029	0.024	0.030	0.026

CALCULATED PROPERTIES	BTU/CF	Specific Gr.	Z Factor	Mol Weight	Wobbe IDX
DRY	109.82	1.472	0.994	42.380	90.52
WATER SATURATED	108.84	1.458	0.993	41.644	

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 130776

CONDITIONS

Operator: LUCID ENERGY DELAWARE, LLC 201 S. Fourth Street Artesia, NM 88210	OGRID: 372422
	Action Number: 130776
	Action Type: [C-103] Sub. General Sundry (C-103Z)

CONDITIONS

Created By	Condition	Condition Date
drose	None	8/3/2022