



333 Main Street Shelby, Montana 59474 / P.O. Box 10640 Bozeman, MT 59179

(406) 460-0903

TO: Jim Griswold, OCD

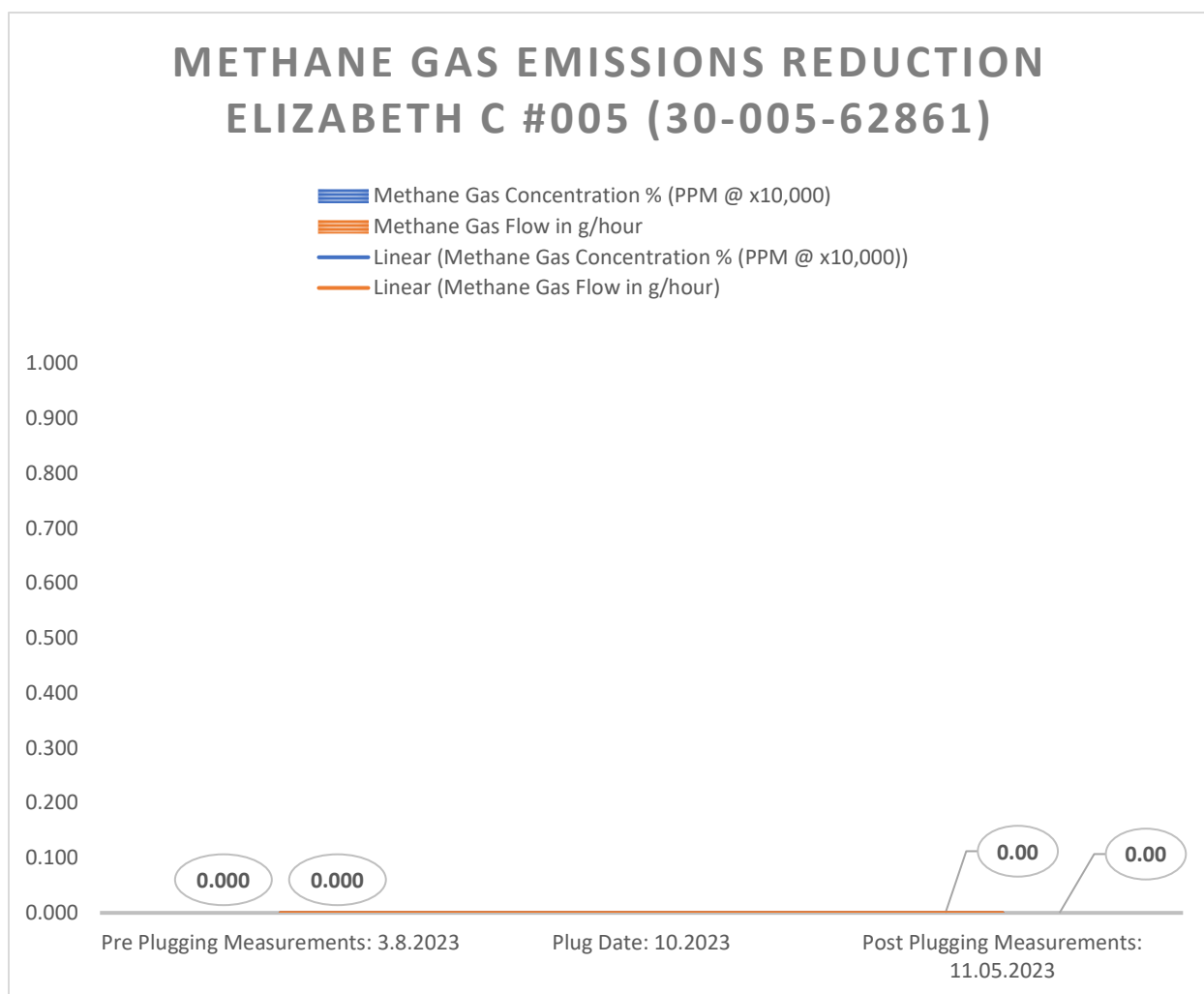
FROM: Curtis Shuck, WDNM

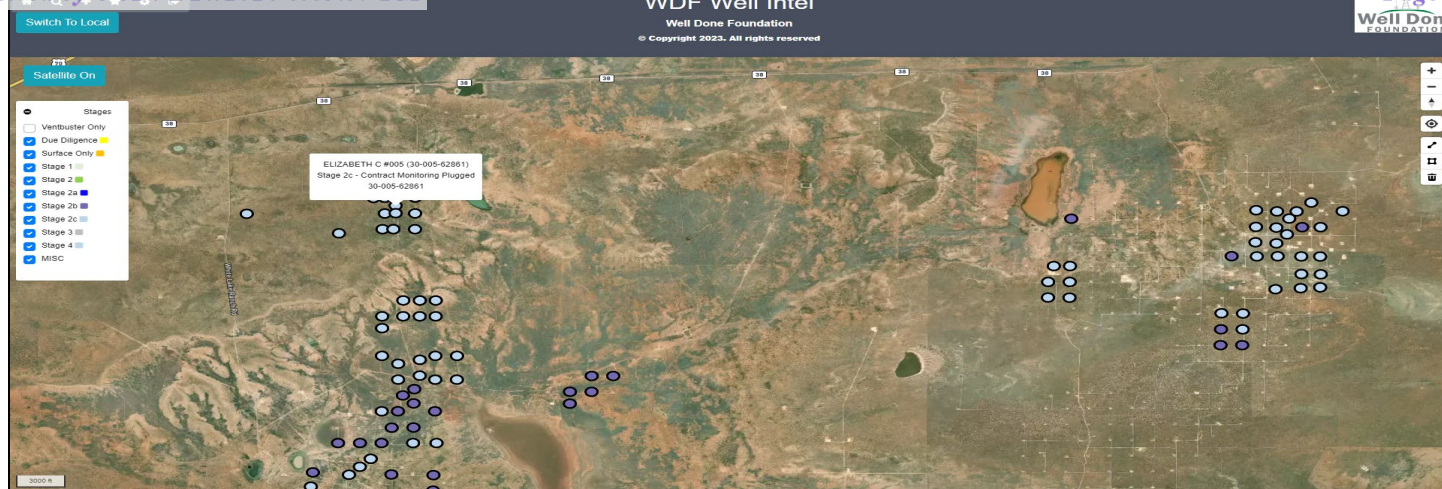
DATE: December 31, 2023

RE: Elizabeth C #005 (30-005-62861) Post Plugging Methane Emission Reduction Report

MEMORANDUM

Well Done New Mexico LLC performed Post Plugging Orphan Well Methane Emission Testing, Gas Sampling & Analysis on the Elizabeth C #005 (30-005-62861) on November 5, 2023. The following are the conclusions:





LABORATORY ANALYTICAL SERVICES

www.petroneis.com
 575.507.3713 26209 W. Mainline • PHOENIX, MAI 02042

C6+ Gas Analysis Report

16235G	Elizabeth C #005 Post Plug	Elizabeth C #005
Sample Point Code	Sample Point Name	Sample Point Location

Laboratory Services	2023078635	BAG	CES - Spot
Source Laboratory	Lab File No	Container Identity	Sampler
USA	USA	USA	New Mexico
District	Area Name	Field Name	Facility Name
Nov 5, 2023 17:15	Nov 5, 2023 17:15	Nov 6, 2023 10:33	Nov 20, 2023
Date Sampled	Date Effective	Date Received	Date Reported

Luis			
Ambient Temp (°F)	Flow Rate (Hr/L)	Analyst	Press PSI @ Temp °F
			Source Conditions

Well Head Foundation	NG
Operator	Lab Source Description

Component	Normalized Mol %	Un-Normalized Mol %	GPM
H2S (H2S)	0.0000	0	
Nitrogen (N2)	99.9210	99.92174	
CO2 (CO2)	0.0430	0.04261	
Methane (C1)	0.0000	0	
Ethane (C2)	0.0000	0.0000	
Propane (C3)	0.0000	0.0000	
i-Butane (IC4)	0.0000	0.0000	
n-Butane (NC4)	0.0000	0.0000	
i-Pentane (IC5)	0.0000	0.0000	
n-Pentane (NC5)	0.0000	0.0000	
Hexanes Plus (C6+)	0.0360	0.03565	0.0160
TOTAL	100.0000	100.0000	0.0160

Gross Heating Values (Real, BTU/ft³)			
14.696 PSI @ 60.00 ÅP	14.732 PSI @ 60.00 ÅP		
Dry	Saturated	Dry	Saturated
1.8	2.7	1.8	2.7
Calculated Total Sample Properties			
GPA2145-16 "Calculated at Contract Conditions"			
Relative Density Real	Relative Density Ideal		
0.5682	0.9683		
Molecular Weight			
28.0437			
C6+ Group Properties			
Assumed Composition			
C6 - 60.000%	C7 - 30.000%	C8 - 10.000%	
	Field H2S		
	0 PPM		

Method(s): Gas C6+ • GPA 2281, Extended Gas • GPA 2286, Calculations • GPA 2172

Analyzer Information		
Device Type:	Gas Chromatograph	Device Make:
Device Model:	GC-2014	Last Cal Date:
		Shimadzu Nov 20, 2023

POTREND STATUS: Passed by Validator on Nov 22, 2023
DATA SOURCE: Imported

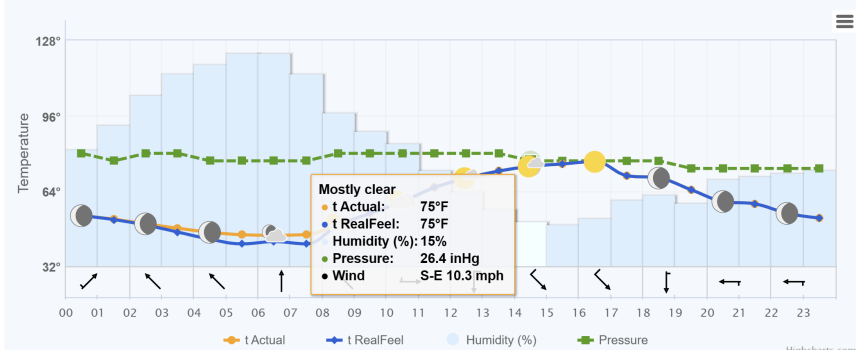
PASSED BY VALIDATOR Reason: Correct
 Close enough to be considered reasonable.

VALIDATOR: Achery Russell
VALIDATOR COMMENTS: OK

November 05, 2023

	Atmospheric conditions and temperature °F	RealFeel °F	Atmospheric pressure inHg	Wind speed mph	Humidity
Night	 +52°	+52°	26.4	▼ N 6.3	47%
Morning	 +45°	+41°	26.4	▲ NW 4.3	64%
Day	 +73°	+73°	26.5	▼ SE 7.2	19%
Evening	 +64°	+64°	26.3	▼ SW 5.1	21%

Hourly forecast for 05.11.2023





16235G	Elizabeth C #005 Post Plug	Elizabeth C #005	
Sample Point Code	Sample Point Name	Sample Point Location	
Laboratory Services	2023078635	BAG	CES - Spot
Source Laboratory	Lab File No	Container Identity	Sampler
USA	USA	USA	New Mexico
District	Area Name	Field Name	Facility Name
Nov 5, 2023 17:15	Nov 5, 2023 17:15	Nov 6, 2023 10:33	Nov 20, 2023
Date Sampled	Date Effective	Date Received	Date Reported
Luis			
Ambient Temp (°F)	Flow Rate (Mcf)	Analyst	Press PSI @ Temp °F Source Conditions
Well Done Foundation		NG	
Operator		Lab Source Description	

Component	Normalized Mol %	Un-Normalized Mol %	GPM
H2S (H2S)	0.0000	0	
Nitrogen (N2)	99.9210	99.92174	
CO2 (CO2)	0.0430	0.04261	
Methane (C1)	0.0000	0	
Ethane (C2)	0.0000	0	0.0000
Propane (C3)	0.0000	0	0.0000
I-Butane (IC4)	0.0000	0	0.0000
N-Butane (NC4)	0.0000	0	0.0000
I-Pentane (IC5)	0.0000	0	0.0000
N-Pentane (NC5)	0.0000	0	0.0000
Hexanes Plus (C6+)	0.0360	0.03565	0.0160
TOTAL	100.0000	100.0000	0.0160

Method(s): Gas C6+ - GPA 2261, Extended Gas - GPA 2286, Calculations - GPA 2172

Analyzer Information			
Device Type:	Gas Chromatograph	Device Make:	Shimadzu
Device Model:	GC-2014	Last Cal Date:	Nov 20, 2023

Gross Heating Values (Real, BTU/ft³)					
14.696 PSI @ 60.00 Å°F	14.73 PSI @ 60.00 Å°F				
Dry	Saturated	Dry	Saturated		
1.8	2.7	1.8	2.7		
Calculated Total Sample Properties					
GPA2145-16 *Calculated at Contract Conditions					
Relative Density Real		Relative Density Ideal			
0.9682		0.9683			
Molecular Weight					
28.0437					
C6+ Group Properties					
Assumed Composition					
C6 - 60.000%	C7 - 30.000%	C8 - 10.000%			
Field H2S					
0 PPM					

PROTREND STATUS:
Passed By Validator on Nov 22, 2023**DATA SOURCE:**
Imported**PASSED BY VALIDATOR REASON:**
Close enough to be considered reasonable.**VALIDATOR:**
Ashley Russell**VALIDATOR COMMENTS:**
OK

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

DEFINITIONS

Action 302396

DEFINITIONS

Operator: CANYON E & P COMPANY 251 O'Connor Ridge Blvd. Irving, TX 75038	OGRID: 269864
	Action Number: 302396
	Action Type: [UF-OMA] Post-Plug Methane Monitoring (UF-OMA-MMB)

DEFINITIONS

The Orphan Well Mitigation Activity (OMA) forms are a subset of the OCD's forms exclusively designed for activities related to State of New Mexico's contracted plugging and reclamation activities. Specifically, these forms are used for orphan wells or associated facilities which are in a "Reclamation Fund Approved" status. This status represents wells or facilities where the OCD has acquired a hearing order allowing the OCD to perform plugging or reclamation on wells and associated facilities that no longer have a viable operator to perform the necessary work. These forms are not to be utilized for any other purpose.

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QUESTIONS

Action 302396

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Operator: CANYON E & P COMPANY 251 O'Connor Ridge Blvd. Irving, TX 75038	OGRID: 269864
	Action Number: 302396
	Action Type: [UF-OMA] Post-Plug Methane Monitoring (UF-OMA-MMB)

QUESTIONS

Prerequisites	
[OGRID] Well Operator	[269864] CANYON E & P COMPANY
[API] Well Name and Number	[30-005-62861] ELIZABETH C #005
Well Status	Plugged (not released)

Monitoring Event Information	
<i>Please answer all the questions in this group.</i>	
Reason For Filing	Post-Plug Methane Monitoring
Date of monitoring	11/05/2023
Latitude	33.63908
Longitude	-104.03117

Monitoring Event Details	
<i>Please answer all the questions in this group.</i>	
Flow rate in cubic meters per day (m³/day)	0.00
Test duration in hours (hr)	1.0
Average flow temperature in degrees Celsius (°C)	22.1
Average gauge flow pressure in kilopascals (kPag)	0.0
Methane concentration in part per million (ppm)	0
Methane emission rate in grams per hour (g/hr)	0.00
Testing Method	Steady State

Monitoring Contractor	
<i>Please answer all the questions in this group.</i>	
Name of monitoring contractor	Well Done New Mexico LLC