



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

(406) 460-0903

TO: Jim Griswold, OCD

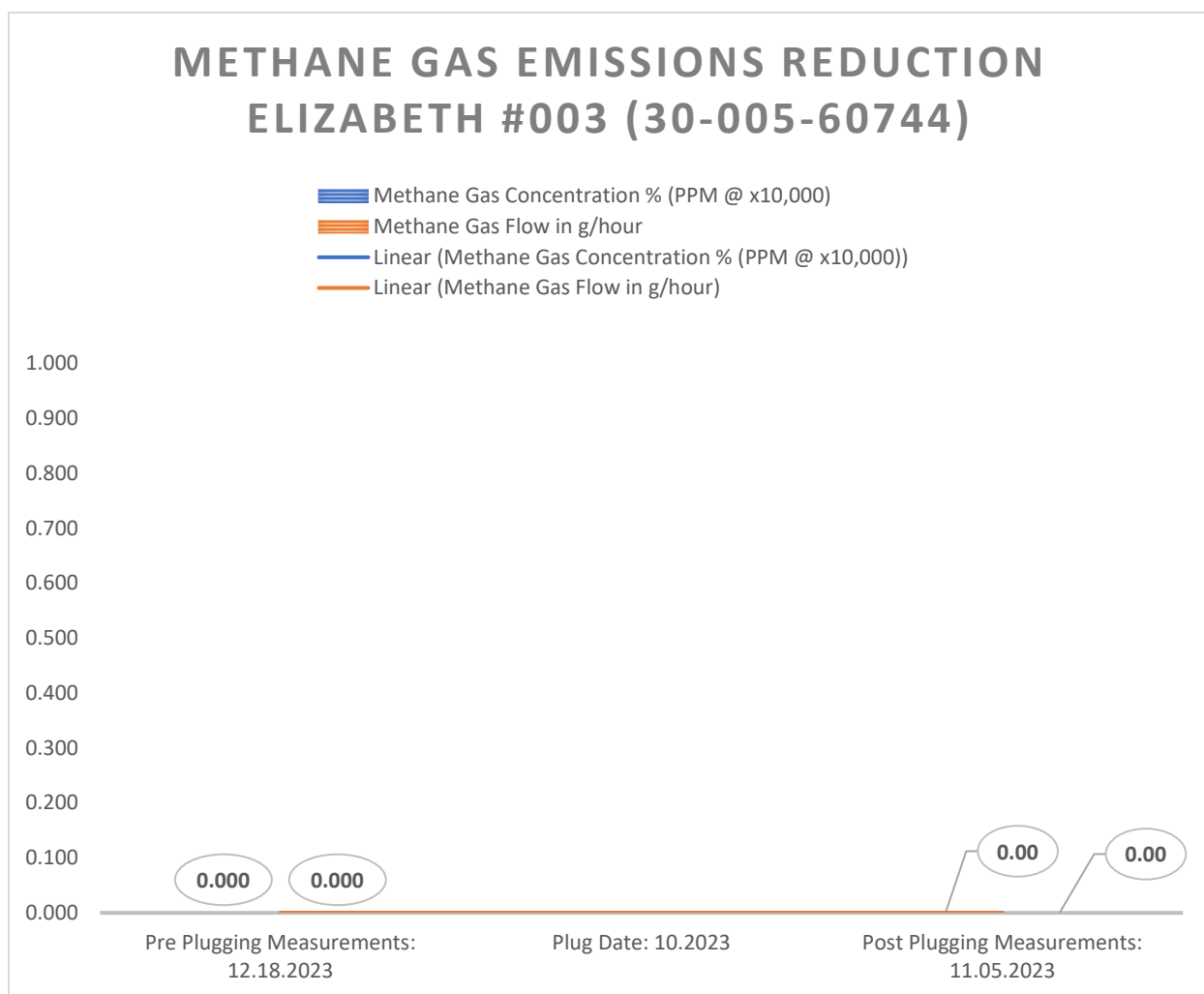
FROM: Curtis Shuck, WDNM

DATE: December 31, 2023


RE: Elizabeth #003 (30-005-60744) 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 #003 (30-005-60744) on November 5, 2023. The following are the conclusions:







LABORATORY SERVICES

Real-time data solutions

575.397.3719

www.pertroleum.com

2000 W Mainline • Houston, TX 77063

15558G

Elizabeth #003 Post Plug

Plugged Well

Sample Point Code

Sample Point Name

Sample Point Location

Laboratory Services

2023078637

NA

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 16:50

Nov 5, 2023 16:50

Nov 6, 2023 10:38

Nov 20, 2023

Date Sampled

Date Effective

Date Received

Date Reported

System Administrator

Analyst

Press PSI @ Temp °F

Source Conditions

Ambient Temp (°F)

Flow Rate (McF)

Well Done Foundation

Operator

NG

Lab Source Description

Component	Normalized Mol %	Un-Normalized Mol %	GPM
H2S (H2S)	0.0000	0	
Nitrogen (N2)	99.9270	99.927	
CO2 (CO2)	0.0380	0.038	
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+)	0.0350	0.035	0.0150
TOTAL	100.0000	100.0000	0.0150

Method(s): Gas C6+ - GPA 2261, Extended Gas - GPA 2298, Calculations - GPA 2172

Gross Heating Values (Real, BTU/lb)

14.696 PSI @ 60.00 °F14.73 PSI @ 60.00 °F

DrySaturatedDrySaturated

1.82.61.82.6

Calculated Total Sample Properties

GPA2145-16 *Calculated at Contract Conditions

Relative Density RealRelative Density Ideal

0.96810.9682

Molecular Weight

28.0423

C6+ Group Properties

Assumed Composition

C6 - 60.000%C7 - 30.000%C8 - 10.000%

Field H2S

0 PPM

PROTEND STATUS: PASSED BY VALIDATOR on Nov 22, 2023DATA SOURCE: Imported

PASSED BY VALIDATOR REASON: Close enough to be considered reasonable.

VALIDATOR: Ashley Russell

VALIDATOR COMMENTS: OK

Analyzer Information

Device Type: Gas Chromatograph

Device Make: Shimadzu

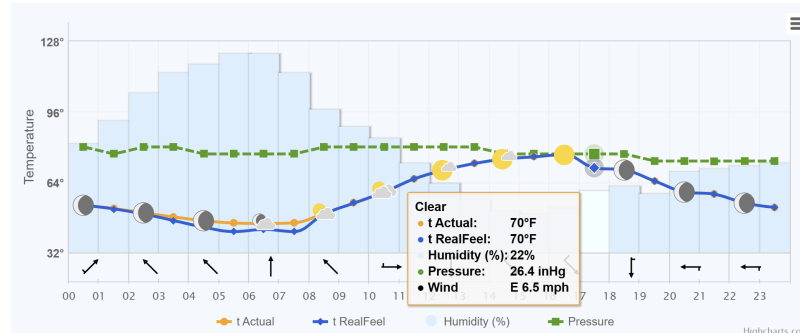
Device Model: GC-2014

Last Cal Date: Nov 20, 2023

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





15558G	Elizabeth #003 Post Plug	Plugged Well	
Sample Point Code	Sample Point Name	Sample Point Location	
Laboratory Services	2023078637	NA	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 16:50	Nov 5, 2023 16:50	Nov 6, 2023 10:38	Nov 20, 2023
Date Sampled	Date Effective	Date Received	Date Reported
System Administrator			
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	
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I-Pentane (IC5)	0.0000	0	0.0000
N-Pentane (NC5)	0.0000	0	0.0000
Hexanes Plus (C6+)	0.0350	0.035	0.0150
TOTAL	100.0000	100.0000	0.0150

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	2.6	1.8	2.6
Calculated Total Sample Properties			
GPA2145-16 *Calculated at Contract Conditions			
Relative Density Real	Relative Density Ideal		
0.9681	0.9682		
Molecular Weight			
28.0423			
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 302392

DEFINITIONS

Operator: CANYON E & P COMPANY 251 O'Connor Ridge Blvd. Irving, TX 75038	OGRID: 269864
	Action Number: 302392
	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 302392

QUESTIONS

Operator: CANYON E & P COMPANY 251 O'Connor Ridge Blvd. Irving, TX 75038	OGRID: 269864
	Action Number: 302392
	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	[30-005-60744] ELIZABETH #003
Well Status	Plugged (not released)

Monitoring Event Information*Please answer all the questions in this group.*

Reason For Filing	Post-Plug Methane Monitoring
Date of monitoring	11/05/2023
Latitude	33.64097
Longitude	-104.02693

Monitoring Event Details*Please answer all the questions in this group.*

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)	22.4
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*Please answer all the questions in this group.*

Name of monitoring contractor	Well Done New Mexico LLC
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