



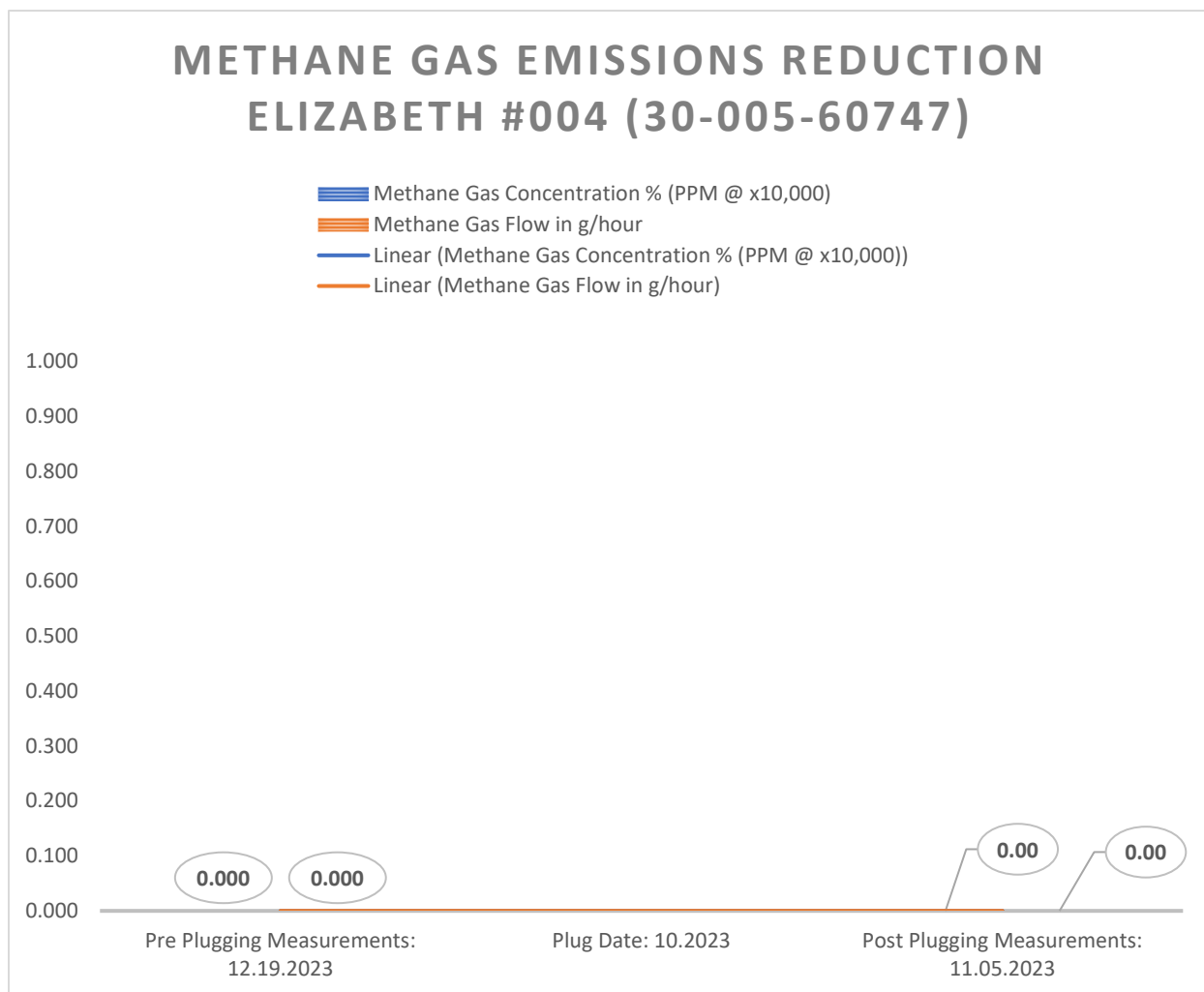
333 Main Street Shelby, Montana 59474 / P.O. Box 10640 Bozeman, MT 59179

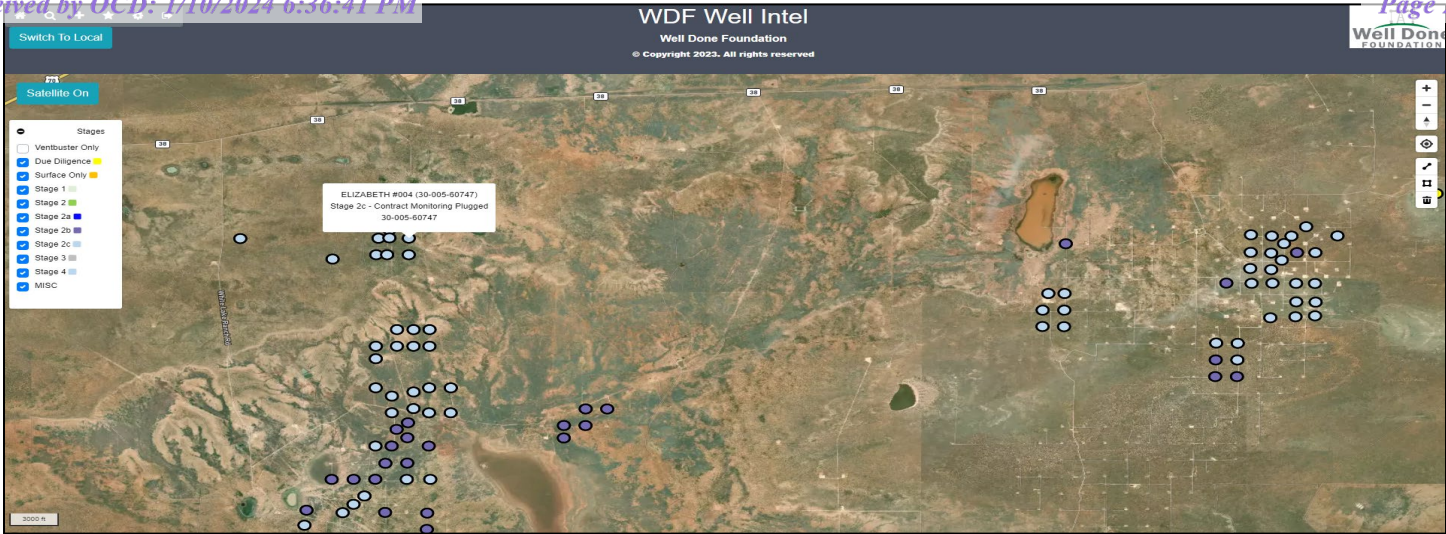
(406) 460-0903


TO: Jim Griswold, OCD  
FROM: Curtis Shuck, WDNM  
DATE: December 31, 2023  
RE: Elizabeth #004 (30-005-60747) 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 #004 (30-005-60747) on November 5, 2023. The following are the conclusions:







LABORATORY SERVICES

Central New Mexico

www.pertmain.com

575.307.3713 2023 W Hartford Hobbs NM 88400

C6+ Gas Analysis Report

15545G

Elizabeth #004 Post Plug

Plugged Well

Sample Point Code

Sample Point Name

Sample Point Location

Laboratory Services

2023078636

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 17:05

Nov 5, 2023 17:05

Nov 6, 2023 10:37

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

Operator

Lab Source Description

NG

Component	Normalized Mol %	Un-Normalized Mol %	GPM
H2S (H2S)	0.0000	0	
Nitrogen (N2)	99.7620	99.763	
CO2 (CO2)	0.0390	0.039	
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+)	0.1950	0.199	0.0860
TOTAL	100.0000	100.0010	0.0860

Gross Heating Values (Real, BTU/R³)

14.696 PSI @ 60.00 A°F

14.713 PSI @ 60.00 A°F

Dry

Saturated

Dry

Saturated

10.2

10.9

10.2

10.9

Calculated Total Sample Properties

GPA2145-16 \*Calculated at Contract Conditions

Relative Density Real

0.9718

Relative Density Ideal

0.9719

Molecular Weight

28.1493

C6+ Group Properties

Assumed Composition

C6 - 60.000%

C7 - 30.000%

C8 - 10.000%

Field H2S

0 PPM

Method(s): Gas C6+ - GPA 2261, Extended Gas - GPA 2268, Calculations - GPA 2172

PROTEND STATUS:

DATA SOURCE:

Passed By Validator on Nov 22, 2023

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

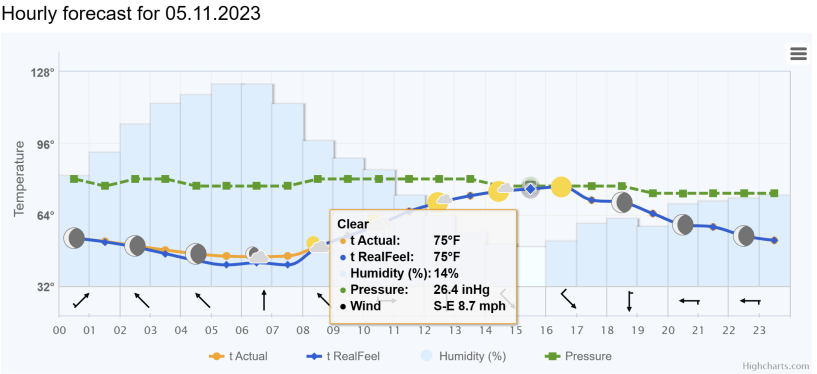
Device Model:

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%





15545G	Elizabeth #004 Post Plug	Plugged Well	
Sample Point Code	Sample Point Name	Sample Point Location	
Laboratory Services	2023078636	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 17:05	Nov 5, 2023 17:05	Nov 6, 2023 10:37	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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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+)	0.1990	0.199	0.0860
TOTAL	100.0000	100.0010	0.0860

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
10.2	10.9	10.2	10.9

Calculated Total Sample Properties	
GPA2145-16 *Calculated at Contract Conditions	
Relative Density Real	Relative Density Ideal
0.9718	0.9719
Molecular Weight	
28.1493	

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 302394

DEFINITIONS

Operator: CANYON E & P COMPANY 251 O'Connor Ridge Blvd. Irving, TX 75038	OGRID: 269864
	Action Number: 302394
	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 302394

QUESTIONS

Operator: CANYON E & P COMPANY 251 O'Connor Ridge Blvd. Irving, TX 75038	OGRID: 269864
	Action Number: 302394
	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	[30-005-60747] ELIZABETH #004
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	33.63737
Longitude	-104.02677

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)	22.2
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