

Pre Plugging Methane Quantification Test Report

Report Prepared By Curtis Shuck

Start Date: Fri Nov 01 2024 21:35:49 GMT+0000

(Coordinated Universal Time)

End Date: Thu Nov 07 2024 23:55:37 GMT+0000

(Coordinated Universal Time)

Test Time Subset: 2024-11-01T21:33:39.875Z -

2024-11-07T23:53:27.875Z

Device: VB100-0005

Well Licensee: NM OCD

Well Name: Lee Whitman B 007

UWI: 30-025-05112 Well License Number: 30-025-05112

Surface Location: Joe Whitman

Bottom Hole Location: Unknown

Test Operator: CES QMS

Authorized By: NM OCD

Test Reason: IIJA FORMULA 1

Scope Of Work: 12- hour AFE Number: 78655

GPS: 33.08352,-103.16775

Notes: casing valve leak. 2,200 ppm H2S!

Orphan Well Flow Test Results

Average Flowrate 1.3485 scf/hr	Average Flow Temperature 61.53 °F	Average Flow Pressure 81.3148 psi	Flow Duration 8779.8 min	Methane Concentration 58.5 %	Methane Emissions 15.15 g/hr	Benzene N/A ppm
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Annual Emission Rate = $(\bar{x}Qmeasured) \times (Concmeasured) \times p \times 0.454 \times 8,760$

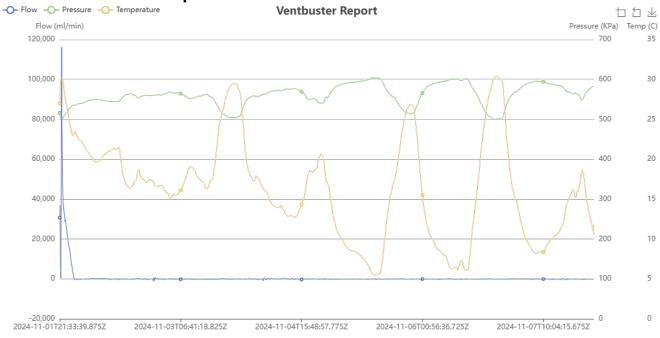
Methane Calculation:

 $(\bar{x}Qmeasured)$ 1.3485 scf/hr x (Concmeasured) 0.585= 0.7888943 scf CH4/hr Methane Flow x (p) x .0423 x .454 x 8,760 = 132.714 CH4 kg/yr Emission Rate

Where:

Qmeasured - scf/hr total measured flow Concmeasured - methane concentration measured p - 0.0423 methane density at 1 atm; 60° F 0.454 - Conversion from lb to kg 8760 - Conversion from hr to yr

Flow/Pressure/Temperature Timeseries



Site Photos



23016G	Lee W	hitman B #7 P	n B #7 Pre IIJA BOT Lee Whitman B #7 Pr			#7 Pre IIJA BOT		
Sample Point Code		Sample Point Name				Sample Poir	nt Location	
Laboratory Services		_	2024102454 BAG		CES - Spot			
Source Labora	atory	Lab File	No	Container Identity		Sampler		
USA		USA USA			New Mexico			
District		Area Name		Field Name			Facility Name	
Nov 1, 2024	<u> </u>	Nov 1, 2024			Dec 5, 2024 1		2024 15:49 Dec 6, 2024	
Date Sampled		Date Effective			Da	te Received	Date	e Reported
		System Admi	nistrator					
Ambient Temp (°F)	Flow Rate (Mcf)	Analysi	t		@ Temp °F Conditions			
Well Done Mor	ntana						NG	
Operator					,		Lab Source Descript	ion
Component	Normalized Mol %	Un-Normalized Mol %	GPM		Gro 14.696 PSI @	_	ues (Real, BTU/f	t³) @ 60.00 °F
H2S (H2S)	0.2200	0.22			Dry 386.0	Saturated 1,363.3	Dry 1,389.2	Saturated 1,366.5
Nitrogen (N2)	8.3450	8.363					Sample Propertie	
CO2 (CO2)	3.8070	3.815					ed at Contract Condition	
Methane (C1)	58.4990	58.63			Relative Density Real 0.9498 Molecular Weight			ensity Ideal 9450
Ethane (C2)	10.3110	10.334	2.7570	7			0.3	7730
Propane (C3)	9.0860	9.106	2.5030	T	27.37	729		
I-Butane (IC4)	1.3850	1.388	0.4530	-			Properties Composition	
N-Butane (NC4)	3.8730	3.882	1.2210	C6	- 60.000%		•	8 - 10.000%
I-Pentane (IC5)	0.9440	0.946	0.3450				d H2S	
N-Pentane (NC5)	1.1100	1.112	0.4020			2200) PPM	
Hexanes Plus (C6+)	2.4200	2.425	1.0500	PROTREM	ND STATUS:		DATA SO	URCE:
TOTAL	100.0000	100.2210	8.7310	Passed E	By Validato	r on Dec 9, 20	124 Importe	d
Method(s): Gas C6+ - GPA 2261, Extend	Analyzer Informa	tion			nple taken OR:	OR REASON: @ this point, o	omposition looks	s reasonable
Device Type: Gas Chromat	.	Make: Shimadz			OR COMME	NTS:		

Device Model:

OK

GC-2014

Last Cal Date:

Sep 9, 2024

Sante Fe Main Office Phone: (505) 476-3441

General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

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

DEFINITIONS

Action 522170

DEFINITIONS

Operator:	OGRID:
Well Done New Mexico LLC (OPG Vendor)	333567
333 Main St	Action Number:
Shelby, MT 59474	522170
	Action Type:
	[UF-OMA] Pre-Plug Methane Monitoring (UF-OMA-MMA)

DEFINITIONS

The OCD Mitigation Activity (OMA) forms are a subset of the OCD's forms exclusively designed for activities related to State of New Mexico's contracted evaluation, plugging, decommissioning, remediation, salvage and reclamation activities. Specifically, these forms are typically used where the OCD has acquired a hearing order allowing the OCD to perform mitigation activities on wells and associated facilities that no longer have an authorized or viable operator to perform the necessary work. These forms are not to be utilized for any other purpose.

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QUESTIONS

Action 522170

QUESTIONS

Operator:	OGRID:
Well Done New Mexico LLC (OPG Vendor)	333567
333 Main St	Action Number:
Shelby, MT 59474	522170
	Action Type:
	[UF-OMA] Pre-Plug Methane Monitoring (UF-OMA-MMA)

QUESTIONS

Prerequisites			
[OGRID] Well Operator	[332127] Scorpion Oil & Gas, LLC		
[API] Well Name and Number	[30-025-05112] LEE WHITMAN B #007		
Well Status	Reclamation Fund Approved		

Monitoring Event Information			
Please answer all the questions in this group.			
Reason For Filing	Pre-Plug Methane Monitoring		
Date of monitoring	11/01/2024		
Latitude	33.0835915		
Longitude	-103.1677628		

Monitoring Event Details			
Please answer all the questions in this group.			
Flow rate in cubic meters per day (m³/day)	0.96		
Test duration in hours (hr)	96.0		
Average flow temperature in degrees Celsius (°C)	16.4		
Average gauge flow pressure in kilopascals (kPag)	100.0		
Methane concentration in part per million (ppm)	584,990		
Methane emission rate in grams per hour (g/hr)	25.90		
Testing Method	Steady State		

Ī	Monitoring Contractor		
	Please answer all the questions in this group.		
	Name of monitoring contractor	WELL DONE NEW MEXICO LLC	