

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

(406) 460-0903

TO: Jim Griswold, OCD

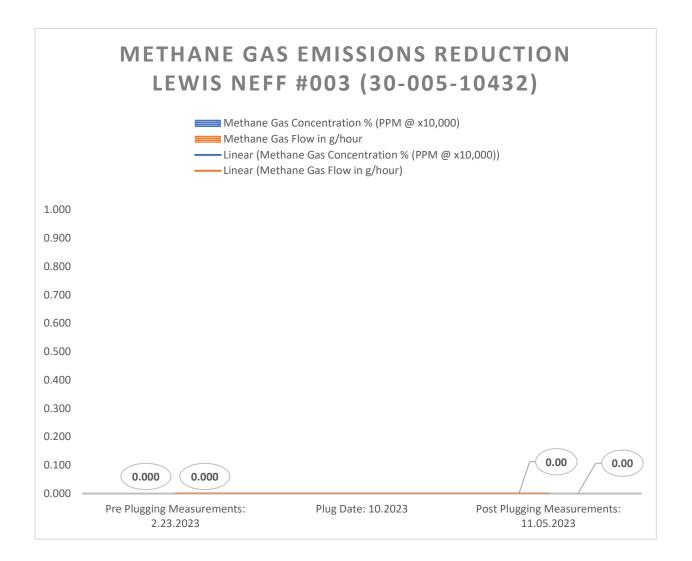
FROM: Curtis Shuck, WDNM

DATE: December 31, 3023

RE: Barkneht #001 (30-005-60813) 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 Barkneht #001 (30-005-60813) on November 5, 2023. The following are the conclusions:





Component	Normalized Mol %	Un-Normalized Mol %	GPM
H2S (H2S)	0.0000	0	
Nitrogen (N2)	99.9190	99.918	
CO2 (CO2)	0.0400	0.04	
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+)	0.0410	0.041	0.0180
TOTAL	100.0000	99.9990	0.0180

Device Make:

Calculated Total Sample Properties
GR214-51 + Totaldated at Controct Conditions
Relative Density Real
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Gas Chroma



19056G		Bark	neht 001 POST	Γ PLUG			Barkne	eht 001
Sample Point Code		Sample Point Name Sample Point Local			oint Location			
Laboratory Ser	vices	2023078	640	NA			CES - Spo	ot
Source Laborate		Lab File	No —	Container Id	lentity	Sampler		
USA		USA		USA		New Mexico		
District		Area Name	_	Field Name		Facility Name		
Nov 5, 2023 17:	00	Nov 5,	2023 17:00		Nov 6, 2023 10:43 Nov 20, 2023			v 20, 2023
Date Sampled		Date	e Effective		Date Received Date Reported			ate Reported
		System Admi	nistrator					
Ambient Temp (°F)	Flow Rate (Mcf)	Analysi	t		I @ Temp °F Conditions			
Well Done Found	ation						NG	
Operator						Lab	Source Descr	iption
Component	Normalized	Un-Normalized	GPM			Heating Values	•	•
	Mol %	Mol %		-	14.696 PSI @ 60.0 Dry	00 A°F Saturated	14.73 PS Dry	SI @ 60.00 °F Saturated
H2S (H2S)	0.0000	0		-	2.1	2.9	2.1	2.9
Nitrogen (N2)	99.9190	99.918		╛	Calcu	lated Total Sam	ple Proper	ties
CO2 (CO2)	0.0400	0.04		GPA2145-16 *Calculated at Contract Conditions Relative Density Real Relative Density Ide 0.9682 0.9683				
Methane (C1)	0.0000	0				•		
Ethane (C2)	0.0000	0	0.0000		Molecular Weig			
Propane (C3)	0.0000	0	0.0000	Ī	28.0465)		
I-Butane (IC4)	0.0000	0	0.0000	1		C6+ Group Pro	•	
N-Butane (NC4)	0.0000	0	0.0000	Cé	5 - 60.000%	C7 - 30.00		C8 - 10.000%
I-Pentane (IC5)	0.0000	0	0.0000			Field H2S		
N-Pentane (NC5)	0.0000	0	0.0000			0 PPM		
Hexanes Plus (C6+)	0.0410	0.041	0.0180	PROTRE	ND STATUS:		DATA S	OURCE:
TOTAL	100.0000	99.9990	0.0180			n Nov 22, 2023	Import	
Method(s): Gas C6+ - GPA 2261, Extended	I Gas - GPA 2286, Calculat	tions - GPA 2172			BY VALIDATOR nough to be co	REASON: onsidered reaso	nable.	
	Analyzer Informa	tion		VALIDAT	TOR:			

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

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 301897

DEFINITIONS

Operator:	OGRID:
CANYON E & P COMPANY	269864
251 O'Connor Ridge Blvd.	Action Number:
Irving, TX 75038	301897
	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.

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720

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

QUESTIONS

Action 301897

QUESTIONS

Operator:	OGRID:
CANYON E & P COMPANY	269864
251 O'Connor Ridge Blvd.	Action Number:
Irving, TX 75038	301897
	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	[30-005-60817] BARKNEHT #001	
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	33.63362	
Longitude	-104.03390	

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)	23.0	
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	