



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

(406) 460-0903

TO: Jim Griswold, OCD

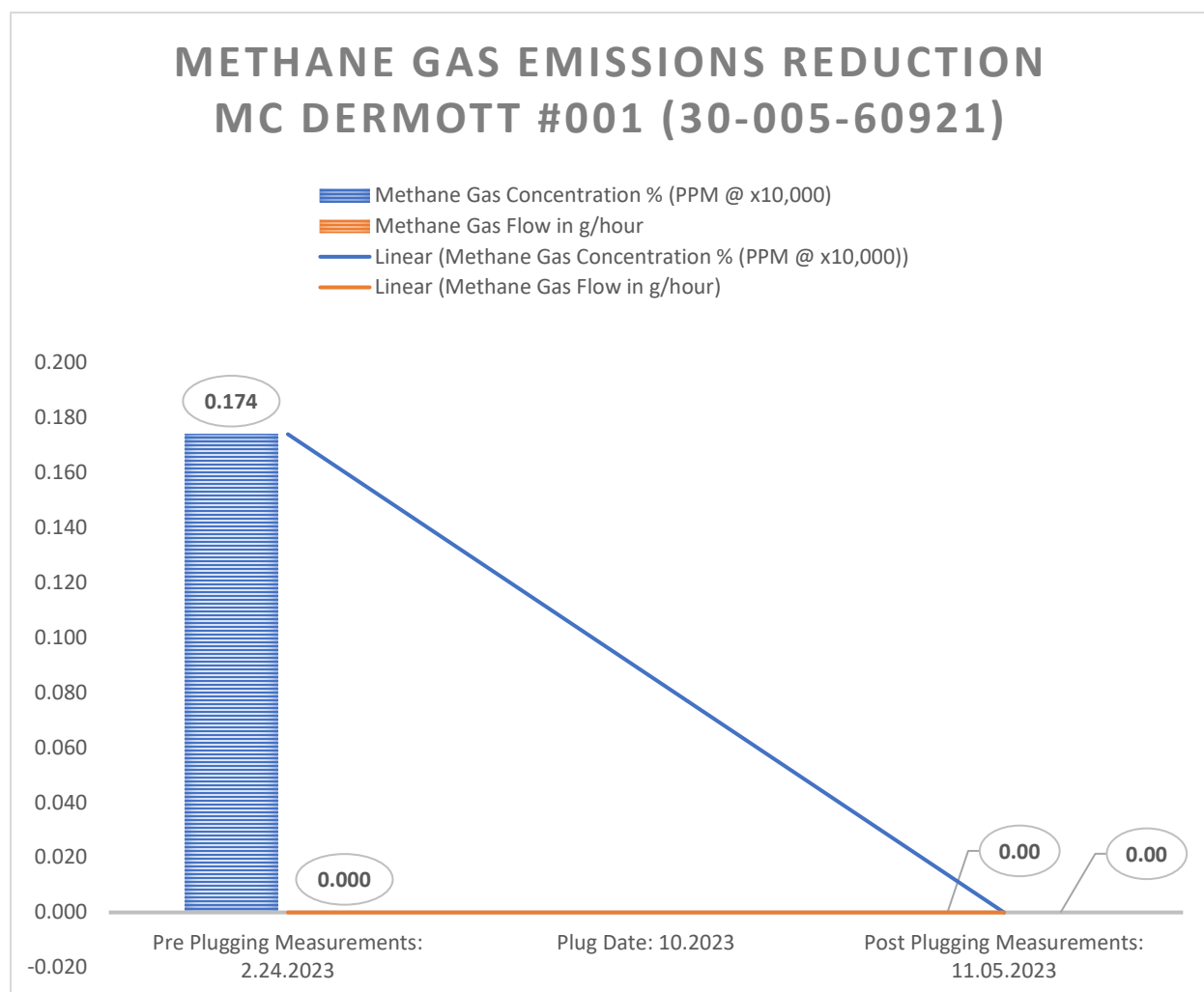
FROM: Curtis Shuck, WDNM

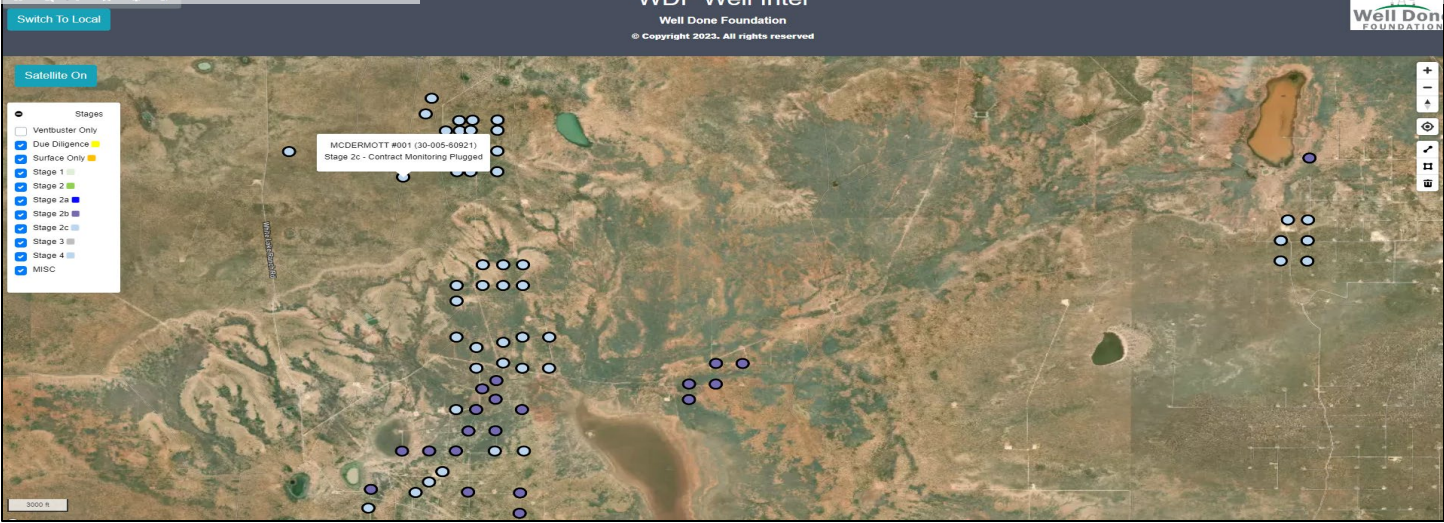
DATE: December 31, 2023

RE: McDermott #001 (30-005-60921) 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 McDermott #001 (30-005-60921) on November 5, 2023. The following are the conclusions:





C6+ Gas Analysis Report November 05, 2023



www.perrinlands.com
575.397.3713 2609 W Marland Hobbs NM 88240

15545G	McDermott #001 Post Plug	Plugged Well - Cement
Sample Point Code	Sample Point Name	Sample Point Location
Laboratory Services	2023078686	NA
Source Laboratory	Lab File No	Container Identity
USA	USA	USA
District	Area Name	Field Name
Nov 5, 2023 17:05	Nov 5, 2023 15:05	Nov 6, 2023 10:37
Date Sampled	Date Effective	Date Received
		Nov 20, 2023
		Date Reported
System Administrator		
Ambient Temp (°F)	Flow Rate (Mcf)	Analyst
		Press PSI @ Temp °F
		Source Conditions
Well Done Foundation		
Operator		
NG		
Lab Source Description		

	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

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+)	0.1990	0.199	0.0860
TOTAL	100.0000	100.0010	0.0860

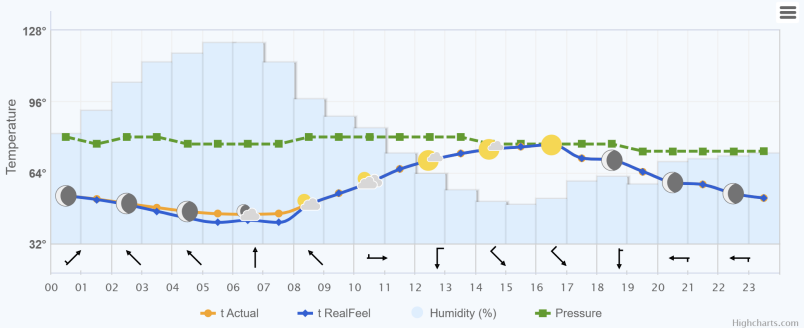
Gross Heating Values (Real, BTU/R ³)			
14.696 PSI @ 60.00 °F	14.73 PSI @ 60.00 °F		
Dry	Saturated	Dry	Saturated
10.2	10.9	10.2	10.9

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	

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



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



15545G	McDermott #001 Post Plug	Plugged Well - Cement	
Sample Point Code	Sample Point Name	Sample Point Location	
Laboratory Services	2023078686	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 15:05	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		

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CO2 (CO2)	0.0390	0.039	
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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
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N-Pentane (NC5)	0.0000	0	0.0000
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Device Model:	GC-2014	Last Cal Date:	Nov 20, 2023

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Molecular Weight	
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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 302400

DEFINITIONS

Operator: CANYON E & P COMPANY 251 O'Connor Ridge Blvd. Irving, TX 75038	OGRID: 269864
	Action Number: 302400
	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 302400

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Operator: CANYON E & P COMPANY 251 O'Connor Ridge Blvd. Irving, TX 75038	OGRID: 269864
	Action Number: 302400
	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	[30-005-60921] MCDERMOTT #001
Well Status	Reclamation Fund Approved

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	33.63265
Longitude	-104.04245

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)	21.0
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