

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

(406) 460-0903

TO: Jim Griswold, OCD

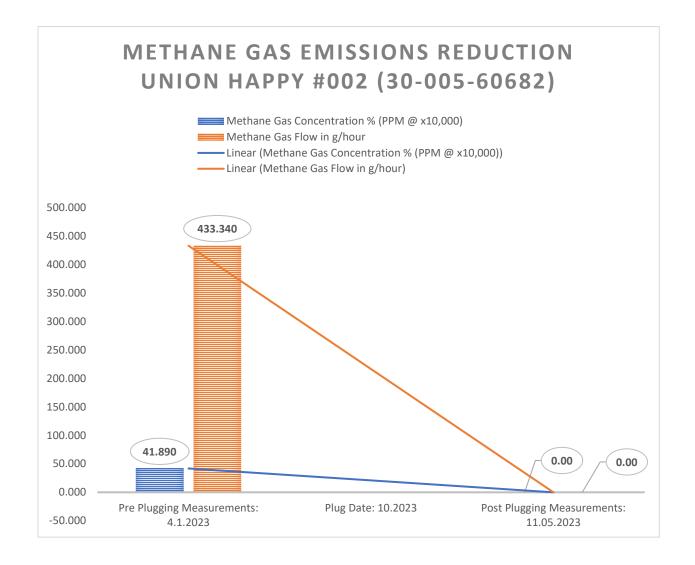
FROM: Curtis Shuck, WDNM

DATE: December 31, 3023

RE: Union Happy #002 (30-005-60682) 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 Union Happy #002 (30-005-6062) on November 5, 2023. The following are the conclusions:











CARROTATOR	Desural Des Analysis	575.	www.permia 397.3713 2609 W Mar	nls.com tand Hobbs I	NM 88240		C6+ Gas A	Analysis Report
16409G			Union Happy #002 Post Plug			Union Happy #002		
Sample Point Code Sample Point No			me			Sample Poin	t Location	
Laboratory Se	rvices	2023078	638	N.	A		CES - Spot	
Source Labora	tory			Container	r Identity	Sampler		
USA		USA		USA	USA		New Mexico	
District				Field Nam	Field Name		Facility Name	
Nov 5, 2023 14	:45	Nov 5,	2023 14:45		Nov 6,	2023 10:40 Nov 20, 2023		20, 2023
Date Sampled		Date	e Effective		Date	Received	Date	Reported
		Admir	1					
Ambient Temp (°F)	Flow Rate (Mcf)	Analys	t	Press PSI @ Temp °F Source Conditions				
Well Done Foun	rlation						NG	
Operator					-	Li	b Source Descripti	on
	Normalized	Un-Normalized		1 [Gros	s Heating Value	s (Real BTII/ft	3)
Component	Mol %	Mol %	GPM		14.696 PSI @ 6		14.73 PSI (
H2S (H2S)	0.0000	0		11	Dry 3.2	Saturated 4.1	Dry 3.2	Saturated 4.1
Nitrogen (N2)	99.9010	99.90144		1⊨				
CO2 (CO2)	0.0360	0.03561		Calculated Total Sample Properties GPA2145-16 "Calculated at Contract Conditions Relative Density Real Relative Density Id				
Methane (C1)	0.0000	0						
Ethane (C2)	0.0000	0	0.0000	11	0.9686 0.9687 Molecular Weight 28.0602		687	
Propane (C3)	0.0000	0	0.0000	┪┕				
I-Butane (IC4)	0.0000	0	0.0000	11	C6+ Group Properties			
N-Butane (NC4)	0.0000	0	0.0000	Assumed Composition C6 - 60,000% C7 - 30,000% C8 - 10,000%			- 10.000%	
I-Pentane (IC5)	0.0000	0	0.0000	┧┝═	CO - 00.000 /0	C7 - 30.0		1 - 10.000 /0
N-Pentane (NC5)	0.0000	0	0.0000	0 PPM				
Hexanes Plus (C6+)	0.0630	0.06295	0.0000	┧┕				
TOTAL	100.0000	100.0000	0.0270		REND STATUS:	on Nov 22 202	DATA SOL 3 Imported	
			0.0270		Passed By Validator on Nov 22, 2023 Imported PASSED BY VALIDATOR REASON:			
Analyzer Information Analyzer Information Bevice Type: Gas Chromatograph Device Make: Shimadzu				VALIE	enough to be DATOR: By Russell	considered reas	onable.	
evice Model: GC-2014		Date: Nov 20,		OK	DATOR COMMEN	TS:		





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



16409G		Union Happy #002 Post Plug				Union Ha	appy #002
Sample Point Code			Sample Point Na	me		Sample Po	oint Location
Laboratory Services		2023078638		NA		CES - Spot	
Source Laborato	ory	Lab File No		Container Identity	_	Sampler	
USA		USA		USA		New Mexico	
District		Area Name		Field Name	_	Facility Name	
Nov 5, 2023 14:	45	Nov 5, 2023 14:45		Nov	, 6, 2023 10:40	Nov 20, 2023	
Date Sampled		Date Effective			Date Received	Da	ite Reported
		Admir	1				
Ambient Temp (°F)	Flow Rate (Mcf)	Analyst	:	Press PSI @ Temp Source Conditions			
Well Done Found	ation					NG	
Operator					I	ab Source Descri	ption
Component	Normalized	Un-Normalized	GPM		Gross Heating Valu	es (Real, BTU/	/ft³)
- Component	Mol %	Mol %	G.	⊣	SI @ 60.00 °F		I @ 60.00 °F
H2S (H2S)	0.0000	0		Dry 3.2	Saturated 4.1	Dry 3.2	Saturated 4.1
Nitrogen (N2)	99.9010	99.90144			Calculated Total S	ample Propert	
CO2 (CO2)	0.0360	0.03561]	GPA2145-16 *Calculated		
Methane (C1)	0.0000	0		Relative Density Real Relative Density 1 0.9686 Molecular Weight		•	
Ethane (C2)	0.0000	0	0.0000			.9687	
Propane (C3)	0.0000	0	0.0000	28	3.0602		
I-Butane (IC4)	0.0000	0	0.0000	╡	C6+ Group	-	
N-Butane (NC4)	0.0000	0	0.0000	C6 - 60.00	Assumed Co 0% C7 - 30.	•	C8 - 10.000%
I-Pentane (IC5)	0.0000	0	0.0000		Field		
N-Pentane (NC5)	0.0000	0	0.0000	0 PPM			
Hexanes Plus (C6+)	0.0630	0.06295	0.0270				
TOTAL	100.0000	100.0000	0.0270	PROTREND STATU Passed By Valida	us: ator on Nov 22, 20	DATA Se 23 Import	
Method(s): Gas C6+ - GPA 2261, Extended	lethod(s): Gas C6+ - GPA 2261, Extended Gas - GPA 2286, Calculations - GPA 2172				PASSED BY VALIDATOR REASON: Close enough to be considered reasonable.		
	Analyzer Informa	tion		VALIDATOR:	ve considered rea	5011dDIC.	
Device Type: Gas Chromato	-	Make: Shimadz	u	Ashley Russell			

GC-2014 Last Cal Date: Nov 20, 2023 Device Model:

VALIDATOR COMMENTS:

OK

<u>District I</u> 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 301945

DEFINITIONS

Operator:	OGRID:
CANYON E & P COMPANY	269864
251 O'Connor Ridge Blvd.	Action Number:
Irving, TX 75038	301945
	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 301945

QUESTIONS

Operator:	OGRID:
CANYON E & P COMPANY	269864
251 O'Connor Ridge Blvd.	Action Number:
Irving, TX 75038	301945
	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	[30-005-60622] UNION HAPPY #002		
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	33.64656		
Longitude	-104.03792		

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)	23.1		
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 LL		