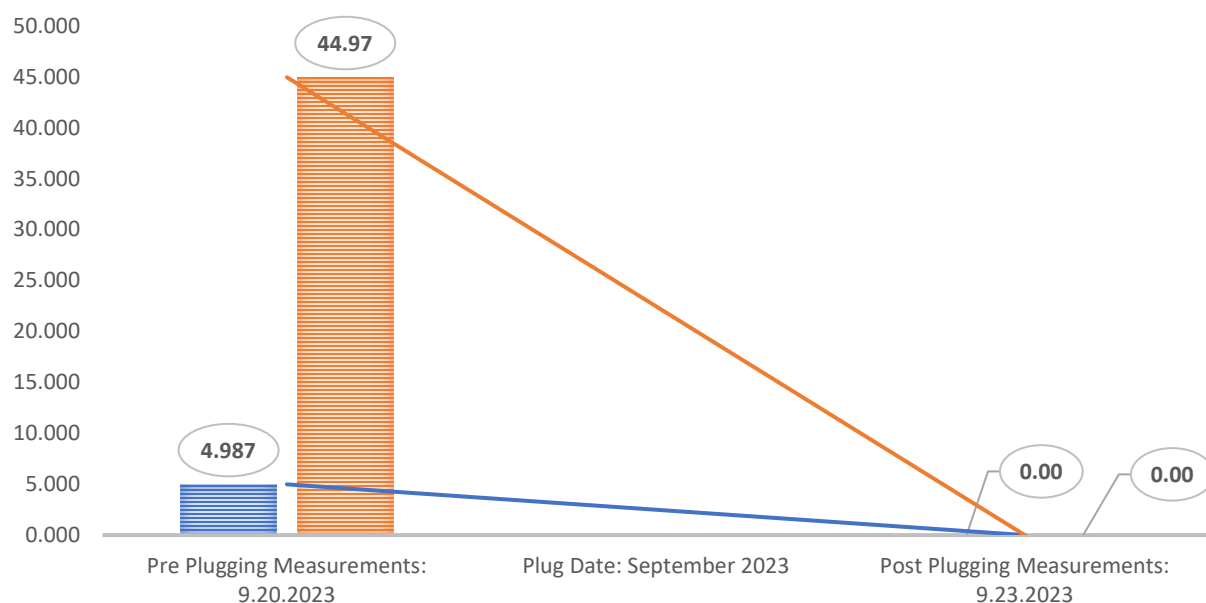




POST PLUGGING METHANE GAS EMISSIONS REDUCTION CATO SAN ANDRES #827 (30-005-29030)

- Methane Gas Concentration % (PPM @ x10,000)
- Methane Gas Flow in g/hour
- Linear (Methane Gas Concentration % (PPM @ x10,000))
- Linear (Methane Gas Flow in g/hour)





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C6+ Gas Analysis Report

18669G	CSAU #827 Post Plug	CSAU #827	
Sample Point Code	Sample Point Name	Sample Point Location	
Laboratory Services	2023076532	BAG	CES - Spot
Source Laboratory	Lab File No	Container Identity	Sampler
USA	USA	USA	New Mexico
District	Area Name	Field Name	Facility Name
Sep 30, 2023 17:09	Sep 30, 2023 17:09	Oct 2, 2023 14:51	Oct 10, 2023
Date Sampled	Date Effective	Date Received	Date Reported
Admin			
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	
Nitrogen (N2)	98.3910	98.39094	
CO2 (CO2)	0.0000	0	
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+)	1.6090	1.60906	0.6980
TOTAL	100.0000	100.0000	0.6980

Gross Heating Values (Real, BTU/ft³)			
14.696 PSI @ 60.00 Å°F		14.73 PSI @ 60.00 Å°F	
Dry	Saturated	Dry	Saturated
82.8	82.3	83.00	82.5

Calculated Total Sample Properties	
GPA2145-16 *Calculated at Contract Conditions	
Relative Density Real	Relative Density Ideal
1.0035	1.0034
Molecular Weight	
29.0621	

C6+ Group Properties		
Assumed Composition		
C6 - 60.000%	C7 - 30.000%	C8 - 10.000%

PROTREND STATUS: Passed By Validator on Oct 10, 2023
DATA SOURCE: Imported

PASSED BY VALIDATOR REASON: Close enough to be considered reasonable.

VALIDATOR: Luis Cano

VALIDATOR COMMENTS: Ok

Method(s): Gas C6+ - GPA 2261, Extended Gas - GPA 2286, Calculations - GPA 2172

Analyzer Information	
Device Type:	Device Make:
Device Model:	Last Cal Date:

Source	Date	Notes
Luis Cano	Oct 10, 2023 3:47 pm	Methane: 0 PPM

CSAU Orphan Well CH4 Averaging - Applied to the 2 Wells Outside Sample Set - CES

Prepared: 10.22.3023

Well Name	Well #	API #	County	Purchase Order	Gas Sample	CH4/PPM	Total LELs/PPM	CH4 Flow @ m3/day	Methane Emission @ g/hour	Post Plug CH4
CSAU	557Y	30-005-29051	Chaves	52100-72995	24-Feb	216,570	378,410	174.97	1,132	Not Plugged
CSAU	586	30-005-29025	Chaves	52100-72995	5-Mar	269,940	506,540	0.1488	1.20	0
CSAU	587	30-005-29024	Chaves	52100-72995	2-Mar	114,100	340,098	6.4268	21.91	0
CSAU	97	30-005-10567	Chaves	52100-72995		48,847		7.31	44.97	0
CSAU	518	30-005-27963	Chaves	52100-72995	25-Jan	6,470	43,590	0.0261	0.01	0
CSAU	517	30-005-27962	Chaves	52100-72995	25-Jan	37,770.00	136,100	4.1558	4.69	0
CSAU	531	30-005-27974	Chaves	52100-72995	24-Jan	133,420	294,320	0	0	0
CSAU	127	30-005-20071	Chaves	52100-72995	20-Jan	108,670	190,880	0.3232	1.05	0
CSAU	533	30-005-2798	Chaves	52100-72995	26-Jan	0.00	5,350	0.0048	0	0
CSAU	516	30-005-27973	Chaves	52100-72995	25-Jan	106,720	204,100	0.0155	0.05	0
CSAU	532	30-005-27964	Chaves	52100-72995	24-Jan	2,730	32,040	0	0	0
CSAU	98	30-005-10474	Chaves	52100-72995	18-Jan	0	5,850	0.0021	0	0
CSAU	119	30-005-20103	Chaves	52100-72995	21-Jan	0	5,960	0.0009	0	0
CSAU	560	30-005-28012	Chaves	52100-72995	4-Mar	2,350	15,450	0	0	0
CSAU	520	30-005-28012	Chaves	52100-72995	25-Jan	4,950	18,510	0.1892	0	0
CSAU	535	30-005-27983	Chaves	52100-72995	26-Jan	0	5,060	0.0554	0	0
CSAU	100	30-005-20007	Chaves	52100-72995	18-Jan	250	4,230	0.0009	0	0
CSAU	561	30-005-28029	Chaves	52100-72995	3-Mar	49,180	98,420	0.0635	0.09	0
CSAU	558	30-005-28010	Chaves	52100-72995	24-Feb	1,600	34,090	0.0018	0	0
CSAU	559	30-005-28011	Chaves	52100-72995	3-Mar	0	3,580	0	0	0
CSAU	574	30-005-28017	Chaves	52100-72998	2-Mar	0	7,930	0	0	0
CSAU	545	30-005-27984	Chaves	52100-72998	3-Mar	12,360	84,660	0.2143	0.08	0
CSAU	573	30-005-28016	Chaves	52100-72998	3-Mar	19,500	198,440	1.0351	0.6	0
CSAU	827	30-005-29030	Chaves	52100-72998		48,847		7.31	44.97	0
CSAU	544	30-005-27986	Chaves	52100-72998	24-Feb	9,770	45,250	0.0296	0.01	0
CSAU	822	30-005-29027	Chaves	52100-72998	26-Jan	42,190	65,930	0.0014	0.000	0
CSAU	588	30-005-29027	Chaves	52100-72998	2-Mar	122,760	348,300	2.2454	7.560	0
CSAU	534	30-005-27961	Chaves	52100-72998	25-Jan	8,730	157,700	0.1448	0	0
Total CSAU Wells		CSAU Well Sample Set	% of Total CSAU Wells			Total CH4 PPM 1,270,030	Total Explosive Gas PPM 3,230,788	Total Flow m3/day 190.0554	Total CH4 Emission g/hour 1,169.25	
28		26	92.85			Avg CH4 PPM 48,847.31		Average Flow m3/day 7.31	Total Avg CH4 Emission g/hour 44.97	

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 280310

DEFINITIONS

Operator: CANO PETRO OF NEW MEXICO, INC. 801 Cherry Street Fort Worth, TX 76102	OGRID: 248802
	Action Number: 280310
	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.

District I

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QUESTIONS

Action 280310

QUESTIONS

Operator: CANO PETRO OF NEW MEXICO, INC. 801 Cherry Street Fort Worth, TX 76102	OGRID: 248802
	Action Number: 280310
	Action Type: [UF-OMA] Post-Plug Methane Monitoring (UF-OMA-MMB)

QUESTIONS

Prerequisites	
[OGRID] Well Operator	[248802] CANO PETRO OF NEW MEXICO, INC.
[API] Well Name and Number	[30-005-29030] CATO SAN ANDRES UNIT #827
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	09/30/2023
Latitude	33.6360855
Longitude	-103.8520203

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)	2.0
Average flow temperature in degrees Celsius (°C)	31.0
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
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