



## POST PLUGGING METHANE GAS EMISSIONS REDUCTION CATO SAN ANDRES #533 (30-005-27985)

- 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

|                      |                     |                        |                                          |
|----------------------|---------------------|------------------------|------------------------------------------|
| 18211G               | CSAU #533 Post Plug | CSAU #533              |                                          |
| Sample Point Code    | Sample Point Name   | Sample Point Location  |                                          |
| Laboratory Services  | 2023074631          | BAG                    | CES - Spot                               |
| Source Laboratory    | Lab File No         | Container Identity     | Sampler                                  |
| USA                  | USA                 | USA                    | New Mexico                               |
| District             | Area Name           | Field Name             | Facility Name                            |
| Aug 29, 2023 16:35   | Aug 29, 2023 16:35  | Aug 30, 2023 14:27     | Aug 31, 2023                             |
| Date Sampled         | Date Effective      | Date Received          | Date Reported                            |
| Admin                |                     |                        |                                          |
| Ambient Temp (°F)    | Flow Rate (Mcf)     | Analyst                | Press PSI @ Temp °F<br>Source Conditions |
| Well Done Foundation |                     | NG                     |                                          |
| Operator             |                     | Lab Source Description |                                          |

| Component          | Normalized Mol % | Un-Normalized Mol % | GPM    |
|--------------------|------------------|---------------------|--------|
| H2S (H2S)          | 0.0000           | 0                   |        |
| Nitrogen (N2)      | 99.8930          | 99.8936             |        |
| CO2 (CO2)          | 0.0350           | 0.03457             |        |
| 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+) | 0.0720           | 0.07184             | 0.0310 |
| TOTAL              | 100.0000         | 100.0000            | 0.0310 |

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

| Gross Heating Values (Real, BTU/ft³) |           |                       |           |
|--------------------------------------|-----------|-----------------------|-----------|
| 14.696 PSI @ 60.00 Å°F               |           | 14.73 PSI @ 60.00 Å°F |           |
| Dry                                  | Saturated | Dry                   | Saturated |
| 3.7                                  | 4.5       | 3.7                   | 4.5       |

| Calculated Total Sample Properties            |                        |
|-----------------------------------------------|------------------------|
| GPA2145-16 *Calculated at Contract Conditions |                        |
| Relative Density Real                         | Relative Density Ideal |
| 0.9689                                        | 0.9690                 |
| Molecular Weight                              |                        |
| 28.0659                                       |                        |

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

**PROTREND STATUS:** Passed By Validator on Sep 1, 2023  
**DATA SOURCE:** Imported  
**PASSED BY VALIDATOR REASON:** First sample taken @ this point, composition looks reasonable  
**VALIDATOR:** Rush

**VALIDATOR COMMENTS:**  
OK

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

| Source | Date                | Notes      |
|--------|---------------------|------------|
|        | Sep 1, 2023 3:15 pm | Methane: 0 |

**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 280502

DEFINITIONS

|                                                                                          |                                                                    |
|------------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| Operator:<br>CANO PETRO OF NEW MEXICO, INC.<br>801 Cherry Street<br>Fort Worth, TX 76102 | OGRID:<br>248802                                                   |
|                                                                                          | Action Number:<br>280502                                           |
|                                                                                          | Action Type:<br>[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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**State of New Mexico**  
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QUESTIONS

Action 280502

**QUESTIONS**

|                                                                                          |                                                                    |
|------------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| Operator:<br>CANO PETRO OF NEW MEXICO, INC.<br>801 Cherry Street<br>Fort Worth, TX 76102 | OGRID:<br>248802                                                   |
|                                                                                          | Action Number:<br>280502                                           |
|                                                                                          | Action Type:<br>[UF-OMA] Post-Plug Methane Monitoring (UF-OMA-MMB) |

**QUESTIONS**

|                            |                                          |
|----------------------------|------------------------------------------|
| <b>Prerequisites</b>       |                                          |
| [OGRID] Well Operator      | [248802] CANO PETRO OF NEW MEXICO, INC.  |
| [API] Well Name and Number | [30-005-27985] CATO SAN ANDRES UNIT #533 |
| 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 | 08/29/2023                   |
| Latitude           | 33.6324844                   |
| Longitude          | -103.8524399                 |

**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 |
|-------------------------------|--------------------------|