



Pre-Plugging Test Report

Start Date: Monday, December 19th, 2022, 1:12 PM EST
End Date: Tuesday, December 20th, 2022, 2:32 PM EST
Device: VB100-0052
Well Licensee: NMOCD
Well Name: OBRIEN LIGHT CAP 7 002
UWI: 30-005-60816
Well License Number: 30-005-60816
Surface Location: CHAVES COUNTY
Bottom Hole Location: UNKNOWN

Test Operator: F.V.
Authorized By: NMOCD
Test Reason: IIJA/PRE PLUG
Scope Of Work: 12-HR
AFE Number: 52100-0000072998
GPS: 33.63360,-104.02737
Notes: MONITORING CASING FLOW

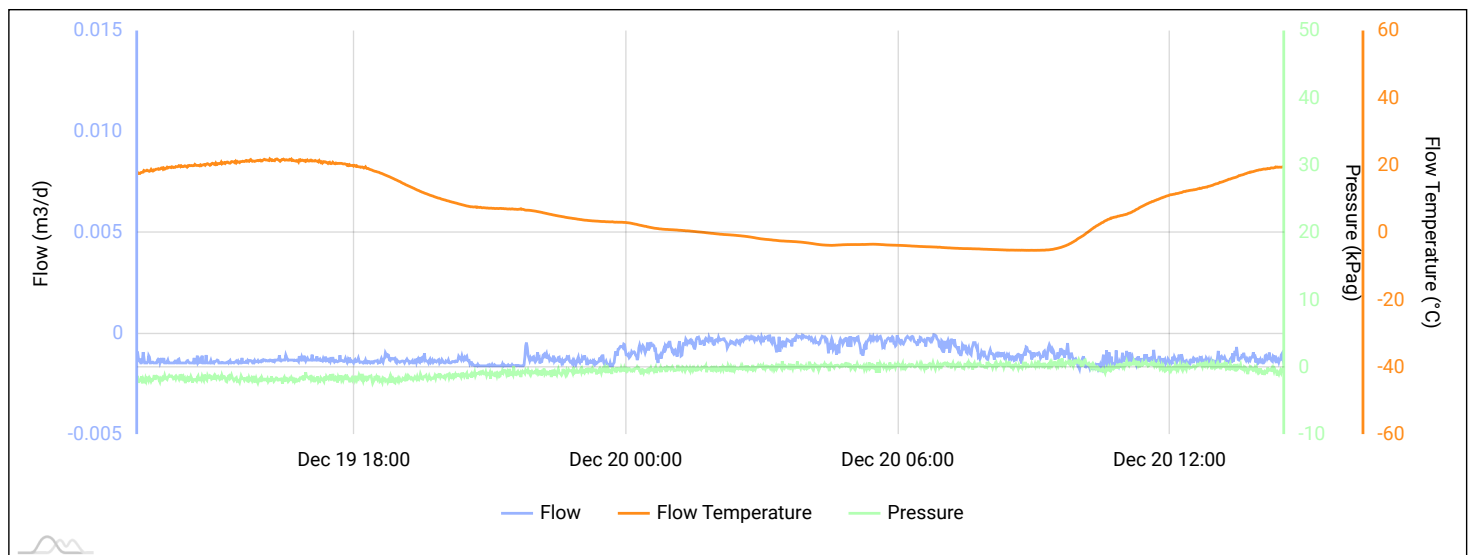
Flow Test

Average Flowrate 0.00 m3/d	Average Flow Temperature 7.0 °C	Average Flow Pressure -0.5 kPag	Flow Duration 25.3 hours	Methane Concentration 0 ppm Total Explosive Gas 3,230 ppm	Methane Emissions 0.00 g/ hour
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Methane Calculations

- ¹ Methane Calculation: 717 grams CH₄ per cubic meter (717 x 0.00 m³/day = 0.00 g/day total /24 = 0.00 g/hour x 0.00000 (methane concentration) = **0.00 g/hour CH₄**). **Methane, gas** weighs 0.000717 grams per cubic centimeter or 0.717 kilograms per cubic meter, i.e. density of methane, gas is equal to 0.717 kg/m³; at 0°C (32°F or 273.15K) at standard atmospheric pressure. In the Imperial or US customary measurement system, the density is equal to 0.044 pounds per cubic foot [lb/ft³].

Flow/Pressure/Temperature Timeseries



Field Notes

Well Site

info Well File Images Well Data Regulatory Field Notes Live Data View Access

Date: 03/25/2023

New Note

Required

Add

#	Date	Note
1	2022-12-20	Fgy:rigged down vb 52
2	2022-12-19	Fgy: measure team 1 was on location today @10:50 a.m.took pictures of well n,e,s,w a 4 gas monitor detection was taken and a gas sample as well as pictures of both and vb # 52 was rigged up and a picture of that was taken

Site Photos



Facing North



Well Head



Gas Sample

Weather Observations

December 19, 2022

	Atmospheric conditions and temperature °F	RealFeel °F	Atmospheric pressure inHg	Wind speed mph	Humidity
Night	☉ +28°	+23°	26.3	► W 4.5	82%
Morning	☀ +23°	+18°	26.3	↙ SW 4.9	86%
Day	☀ +59°	+59°	26.5	► W 9.6	20%
Evening	☉ +45°	+41°	26.5	↖ NW 8.3	29%

December 20, 2022

	Atmospheric conditions and temperature °F	RealFeel °F	Atmospheric pressure inHg	Wind speed mph	Humidity
Night	☉ +34°	+27°	26.5	▼ N 6.7	38%
Morning	☀ +21°	+16°	26.6	▼ N 4	56%
Day	☀ +48°	+46°	26.7	▼ SE 6.3	23%
Evening	☉ +39°	+34°	26.5	▲ S 6.9	43%

Hourly forecast for 19.12.2022



Hourly forecast for 20.12.2022





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

C6+ Gas Analysis Report

15544G	O'Brien Lightcap 7 #002	O'Brien Lightcap 7 #002	
Sample Point Code	Sample Point Name	Sample Point Location	
Laboratory Services	2022061761	Tedlar	Francis V. - Spot
Source Laboratory	Lab File No	Container Identity	Sampler
USA	USA	USA	New Mexico
District	Area Name	Field Name	Facility Name
Dec 19, 2022 11:00	Dec 19, 2022 11:00	Dec 22, 2022 14:23	Dec 23, 2022
Date Sampled	Date Effective	Date Received	Date Reported
Torrance			
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)	99.6340	99.63421	
CO2 (CO2)	0.0430	0.04342	
Methane (C1)	0.0000	0	
Ethane (C2)	0.0280	0.02806	0.0070
Propane (C3)	0.0350	0.03481	0.0100
I-Butane (IC4)	0.0000	0	0.0000
N-Butane (NC4)	0.0120	0.01182	0.0040
I-Pentane (IC5)	0.0000	0	0.0000
N-Pentane (NC5)	0.0000	0	0.0000
Hexanes Plus (C6+)	0.2480	0.24768	0.1080
TOTAL	100.0000	100.0000	0.1290

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:	Sep 26, 2022

Gross Heating Values (Real, BTU/ft³)			
14.696 PSI @ 60.00 Å°F	14.73 PSI @ 60.00 Å°F		
Dry	Saturated	Dry	Saturated
14.6	15.2	14.6	15.2

Calculated Total Sample Properties	
GPA2145-16 *Calculated at Contract Conditions	
Relative Density Real	Relative Density Ideal
0.9733	0.9734
Molecular Weight	
28.1917	

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

Field H2S
0 PPM

PROTREND STATUS: Passed By Validator on Dec 27, 2022
DATA SOURCE: Imported

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

VALIDATOR:
Luis Cano
VALIDATOR COMMENTS:
OK

Source	Date	Notes
Luis Cano	Dec 27, 2022 8:41 am	Methane: 0 PPM

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 295408

DEFINITIONS

Operator: CANYON E & P COMPANY 251 O'Connor Ridge Blvd. Irving, TX 75038	OGRID: 269864
	Action Number: 295408
	Action Type: [UF-OMA] Pre-Plug Methane Monitoring (UF-OMA-MMA)

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 295408

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Operator: CANYON E & P COMPANY 251 O'Connor Ridge Blvd. Irving, TX 75038	OGRID: 269864
	Action Number: 295408
	Action Type: [UF-OMA] Pre-Plug Methane Monitoring (UF-OMA-MMA)

QUESTIONS

Prerequisites	
[OGRID] Well Operator	[269864] CANYON E & P COMPANY
[API] Well Name and Number	[30-005-60816] O'BRIEN LIGHTCAP 7 #002
Well Status	Plugged (not released)

Monitoring Event Information

Please answer all the questions in this group.

Reason For Filing	Pre-Plug Methane Monitoring
Date of monitoring	12/19/2022
Latitude	33.63360
Longitude	-104.02737

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)	25.2
Average flow temperature in degrees Celsius (°C)	7.0
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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