Twin Lakes San Adres Unit - Orphan Well CH4 Averaging - Applied to the five (5) Wells Outside Measured Sample Set (20) - CES

Prepared: 12.18.3023

Well Name	Well #	API #	County	Purchase Order	Gas Sample	Pre Plug CH4/PPM	Total Pre Plug LELs/PPM	Pre Plug CH4 Flow @ m3/day	Pre Plug CH4 Emission @ g/hour	Post Plug CH4
TLSA	57	30-005-61135	Chaves	1000002000038AA	24-Aug	558,960	673,300	0.72	9.29	0
TLSA	25	30-005-60334	Chaves	1000002000038AA	16-Aug	305,530	337,060	1.850	13.050	0
TLSA	110	30-005-61556	Chaves	1000002000038AA	25-Aug	231,170	290,907	0.210	1.120	0
TLSA	81	30-005-60093	Chaves	1000002000038AA	22-Aug	170,460	521,850	*0.09*	*0.35*	0
TLSA	34	30-005-60033	Chaves	1000002000038AA	22-Aug	147,800	188,860	0.350	1.170	0
TLSA	99	30-005-61261	Chaves	1000002000038AA	26-Aug	141,000	196,080	0.9	0.29	0
TLSA	66	30-005-60468	Chaves	1000002000038AA	24-Aug	133,190	200,390	0.010	0.030	0
TLSA	86	30-005-60794	Chaves	1000002000038AA	24-Aug	110,150	332,590	0.02	0.02	0
TLSA	95	30-005-61107	Chaves	1000002000038AA	25-Aug	42,800	138,670	0.2	0.26	0
TLSA	103	30-005-61075	Chaves	1000002000038AA	25-Aug	21,540	47,270	0.001	0.001	0
TLSA	15	30-005-62565	Chaves	1000002000038AA	25-Aug	17,050	29,980	1.21	0.46	0
TLSA	11	30-005-60563	Chaves	1000002000038AA	25-Aug	15,940	16,750	0.003	0.001	0
TLSA	10	30-005-60571	Chaves	1000002000038AA	25-Aug	15,006	47,060	0.04	0.01	0
TLSA	100	30-005-61105	Chaves	1000002000038AA	26-Aug	11,070	44,910	0.01	0.003	0
TLSA	108	30-005-61334	Chaves	1000002000038AA	26-Aug	8,990	56,270	0.002	0.01	0
TLSA	113	30-005-61604	Chaves	1000002000038AA	26-Aug	*5,260*	41,380	0	0	0
TLSA	61	30-005-60920	Chaves	1000002000038AA	26-Aug	2,050	13,410	0.01	0	0
TLSA	41	30-005-60768	Chaves	1000002000038AA	26-Aug	1,680	8,920	0.02	0	0
TLSA	68	30-005-61007	Chaves	1000002000038AA	26-Aug	1,050	6,090	0	0	0
TLSA	78	30-005-60815	Chaves	1000002000038AA	23-Aug	920	2,560	0	0	0
TLSA	14	30-005-60597	Chaves	1000002000038AA	19-Dec	97,081	159,715	0.2823	0.82	0
TLSA	105	30-005-62068	Chaves	1000002000038AA	19-Dec	97,081	159,715	0.2823	0.82	0
TLSA	54	30-005-00349	Chaves	1000002000038AA	19-Dec	97,081	159,715	0.2823	0.82	0
TLSA	107	30-005-61104	Chaves	1000002000038AA	19-Dec	97,081	159,715	0.2823	0.82	0
TLSA	111	30-005-61604	Chaves	1000002000038AA	19-Dec	97,081	159,715	0.2823	0.82	0

Total TLSA Wells Included		TLSA Well Sample Set Applied	% of Total TLSA Wells (20) Tested	% of Total TLSA Wells (5) Averaged		Sample Total CH4 PPM	Sample Total Explosive Gas PPM	Sample Total Flow m3/day	Sample Total CH4 Emission g/hour	Total TLSA CH4 Emission g/hour Removed with IIJA Funding
						1,941,616	3,194,307	5.6460	26.0650	30.165
						Sample Avg CH4 PPM	Sample Avg Explosive Gas PPM	Sample Average Flow m3/day	Sample Avg CH4 Emission g/hour	
25		20	80%	20%		97,081	159,715	0.2823	1.3033	

- [1] Methane Calculation: 717 grams CH4 per cubic meter (717 x 0.2823 m3/day = 202.41 g/day total /24 = 8.43 g/hour x 0.097081 (methane concentration) = **0.82 g/hour CH4**). **Methane, gas** weighs 0.000717 *gram per cubic centimeter* or 0.717 *kilogram per cubic meter*, i.e. density of *methane, gas* is equal to 0.717 kg/m^3; at 0°C (32°F or 273.15K) at standard atmospheric pressure. In Imperial or US customary measurement system, the density is equal to 0.044 *pound per cubic foot* [lb/ft^3].

District I
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Phone:(575) 393-6161 Fax:(575) 393-0720
District II
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District III
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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

Operator: BLUE SKY NM, INC. 7941 Katy Freeway Houston, TX 77024	OGRID: 300825
	Action Number: 296462
	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 296462

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QUESTIONS

Prerequisites	
[OGRID] Well Operator	**[300825] BLUE SKY NM, INC.**
[API] Well Name and Number	**[30-005-60597] TWIN LAKES SAN ANDRES UNIT #014**
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	33.5847023
Longitude	-104.027696

Monitoring Event Details	
Please answer all the questions in this group.	
Flow rate in cubic meters per day (m^3/day)	0.28
Test duration in hours (hr)	12.0
Average flow temperature in degrees Celsius (°C)	7.0
Average gauge flow pressure in kilopascals (kPag)	1.0
Methane concentration in part per million (ppm)	97,081
Methane emission rate in grams per hour (g/hr)	0.82
Testing Method	Steady State

Monitoring Contractor	
Please answer all the questions in this group.	
Name of monitoring contractor	Well Done New Mexico LLC