

**Emissions Monitoring Report
ECMC Orphaned Well Program**

Monitoring Site: Silver King Pan Am Hayes #5-27 (OWP)
API #: 05-103-07199
ECMC Location ID: 397405
Well Status: Post-Plugging
Lat 40.107267 Long -108.825874
SWSE Sec 27 T2N R102W 6th PM, Rio Blanco, CO

Monitoring Result: NON-DETECT

Background:

Emissions monitoring was conducted at the Silver King Pan Am Hayes #5-27 (OWP). The well was drilled in 1969 to a depth of 2,963 ft. The well plugged and abandoned (P&A) in May, 2024.

Methodology:

Cottonwood was on-site to conduct the post-plugging emissions monitoring on June 5, 2024.

Cottonwood utilized a GEM™5000 Landfill Gas Meter to determine if methane emissions were present at the wellhead, flowlines, and associated production equipment (if present). Cottonwood utilized a photoionization detector (PID) to determine onsite concentrations of volatile organic compounds (VOCs). Where emissions were detected, the GEM™5000 Landfill Gas Meter was utilized to determine the approximate percent (%) of methane and other gases contained in the emissions. Cottonwood also utilized the GEM™5000 Landfill Gas Meter and PID to determine background conditions.

Other observations, including auditory, visual, and olfactory observations were also noted. Observations regarding vegetation and general site conditions were recorded in a field notebook.

Results:

No methane emissions were detected from the Silver King Pan Am Hayes #5-27 (OWP) P&A wellhead.

A summary of the emissions monitoring is included on the following data sheet. Results of the emissions monitoring are shown on Figure 1 and photographic documentation of site conditions during the monitoring is included as Attachment 1.

Conclusion

Based on results of the emissions monitoring, no methane emissions were detected from the Silver King Pan Am Hayes #5-27 (OWP) P&A wellhead.



**Emissions Monitoring Data Sheet
ECMC Orphaned Well Program**

Well Name: Silver King Pan Am Hayes #5-27 (OWP) Date: 6/5/2024
API #: 05-103-07199 Monitoring Specialist: DS

Meteorological Conditions

Temperature: 85°F
 Barometric Pressure: 24.83 inHg
 Relative Humidity: 15 %
 Wind Speed and Direction: 5-10 mph SW

Monitoring Results

Background Conditions	Methane:	0.0	%
	Carbon Dioxide (CO2):	0.3	%
	Hydrogen Sulfide (H2S):	0.0	ppm
	Volatile Organic Compounds (VOCs):	0.0	ppm
P&A Wellhead Conditions	Methane:	0.0	%
	Carbon Dioxide (CO2):	0.2	%
	Hydrogen Sulfide (H2S):	0.0	ppm
	Volatile Organic Compounds (VOCs):	0.0	ppm

Equipment Used:

GEM 5000	PID	

Notes:

No methane was detected, no surface water was observed and vegetation was consistent with seasonal and surrounding conditions within the vicinity of the well pad.

Silver King Pan Am Hayes #5-27 (OWP)

Post-Plugging Methane Assessment Map

Legend

- No Methane Detected
- 📌 Silver King Pan Am Hayes #5-27 (OWP)



Google Earth

Image © 2024 Airbus

50 ft

Notes: Post-plugging methane assessment conducted 6/5/2024. No methane detected.



Mapping by: D. Songer
Date: 6/25/2024

Figure 1
Silver King Pan Am Hayes #5-27 (OWP) Map
Post-plugging Methane Assessment
Colorado Energy & Carbon
Management Commission

**Silver King Pan Am Hayes #5-27 (OWP)
Photographic Log
Colorado Energy and Carbon Management Commission**

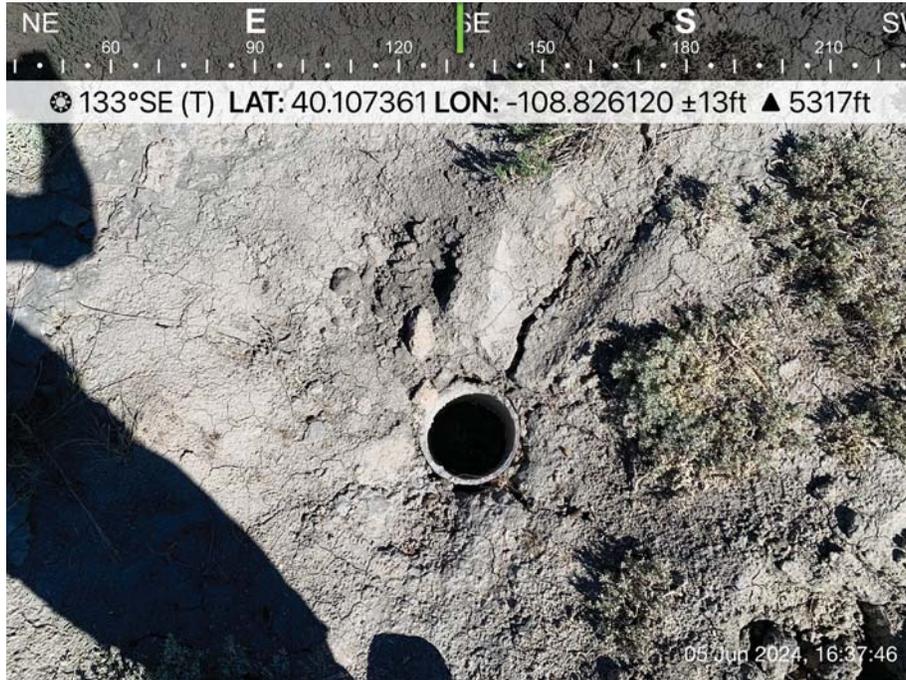


Photo 1: Silver King Pan Am Hayes #5-27 (OWP) P&A wellhead, no methane detected, view from above.



Photo 2: Silver King Pan Am Hayes #5-27 (OWP) P&A wellhead, no methane detected, view north.

**Silver King Pan Am Hayes #5-27 (OWP)
Photographic Log
Colorado Energy and Carbon Management Commission**



Photo 3: Silver King Pan Am Hayes #5-27 (OWP) P&A wellhead, no methane detected, view east.



Photo 4: Silver King Pan Am Hayes #5-27 (OWP) P&A wellhead, no methane detected, view south.

Silver King Pan Am Hayes #5-27 (OWP)
Photographic Log
Colorado Energy and Carbon Management Commission



Photo 5: Silver King Pan Am Hayes #5-27 (OWP) P&A wellhead, no methane detected, view west.