



## ENVIRONMENTAL DAILY FIELD REPORT

**PROJECT NAME:** OP33 Plug and Abandonment

**DATE:** 11/8/2023 & 11/9/2023

**SITE LOCATION:** OP33 Pad

**PERSONNEL:** Trevor Lakin

**PROJECT MANAGER:** Jordan Veith

**WEATHER CONDITIONS:** Sunny, winds 10-15 miles per hour, 20-45 degrees Fahrenheit

**TIME ARRIVED:** 10:30 AM

**TIME DEPARTED:** 12:00 PM

**SUBCONTRACTOR:** MK Hydrovac

**NAME / FIRM:** Gary & Brad, MK Hydrovac

**SITE VISITORS:** NONE

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### PRIMARY ASSIGNMENTS:

Field screen and collect two (2) facility closure soil samples from the OP33 Keinath 33-9 wellhead line and the flowline as it ties into the separator as a part of the well plug and abandonment (P&A). Collect four (4) background grab soil samples from 1-foot below ground surface (bgs) from four off-site and undisturbed locations north, south, east, and west of the OP33 pad. Submit site soil samples to Pace Analytical Laboratories (Pace) for full Colorado Energy and Carbon Management Commission (ECMC) Table 915-1 analytes and background soil samples for ECMC Table 915-1 excluding organics. Collect photos and GPS points of all soil sample locations.

### FIELD NOTES:

Trevor Lakin of Kleinfelder and MK Hydrovac (MK) arrived on site at 11:15 AM. Utility locate requests through Colorado 811 were completed by Kleinfelder prior to activities (Ticket B330501580-00B). Began photoionization detector (PID) span calibration. PID and PID calibration gas is owned and maintained by Kleinfelder. PID SN: 592-906689. Span calibration passed.

MK was tasked by Caerus Oil and Gas (Caerus) to complete hydrovac potholes adjacent to the OP33 Keinath 33-9 wellhead and the flowline as it ties into the separator as a part of the well P&A. Kleinfelder performed the following field activities:

**11/8/2023**

- Collected four (4) background grab soil samples from locations north (OP33-N), east (OP33-E), south (OP33-S), and west (OP33-W) at 1-foot bgs.

Trevor Lakin

**KLEINFELDER REPRESENTATIVE PRINT NAME**

Trevor Lakin

**KLEINFELDER REPRESENTATIVE SIGNATURE**



11/9/2023

- Collected one (1) grab soil sample from the base of the hydrovac pothole directly adjacent the OP33 Keinath 33-9 wellhead line (FC-WH-Keinath 33-9) at 5-feet bgs.
- Collected one (1) grab soil sample from the base of the hydrovac pothole directly adjacent to the flowline as it ties into the separator (FC-FL) at 4-feet bgs.

Prior to arrival, Caerus had identified all soil sample locations. Soil samples were collected using a stainless-steel hand auger and stainless shovel. See attached **Sample Register**, **Photo Log** and **Figure 1** for additional details on samples including PID readings. Departed OP33 Pad at approximately 12:00 PM en-route to OH4 facility.

Trevor Lakin  
KLEINFELDER REPRESENTATIVE PRINT NAME

Trevor Lakin  
KLEINFELDER REPRESENTATIVE SIGNATURE  
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## COGCC Soil Sampling

by **Trevor Lakin** on **11/8/2023**  
for **Caerus OP33**

Caerus - 2023 Sampling Support  
Services  
20234315.001A  
Veith, Jordan

### Sample Register

Sample ID	Latitude (deg)	Longitude (deg)	Sample Type	Date	Time	Depth	PID (ppmv)	Odor	Staining	Comments
20231108-OUBG- (OP33-S)@1	39.38939402	-108.10754711	Background	11/08/2023	11:50 AM	1 to 1	0	N	N	
20231108-OUBG- (OP33-E)@1	39.38994229	-108.10686505	Background	11/08/2023	12:12 PM	1 to 1	0	N	N	
20231108-OUBG- (OP33-W)@1	39.38969092	-108.10809470	Background	11/08/2023	12:34 PM	1 to 1	0	N	N	
20231108-OUBG- (OP33-N)@1	39.39038069	-108.10741233	Background	11/08/2023	12:54 PM	1 to 1	0	N	N	

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Kleinfelder Representative *Signature*

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### Photo Log

Fig. 1: 20231108-OUBG-(OP33-S)@1



Fig. 2: 20231108-OUBG(OP33-E)@1



Fig. 3: 20231108-OP33-(OUBG-W)@1



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Kleinfelder Representative Signature



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Veith, Jordan

### Photo Log

Fig. 4: 20231108-OUBG-(OP33-N)@1



Fig. 5: North



Fig. 6: South



Kleinfelder Representative Signature

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### Photo Log

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**Fig. 7: East**



**Fig. 8: West**



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Caerus - 2023 Sampling Support  
Services  
20234315.001A  
Veith, Jordan

### Sample Register

Sample ID	Latitude (deg)	Longitude (deg)	Sample Type	Date	Time	Depth	PID (ppmv)	Odor	Staining	Comments
20231109-OP33-(FC-FL)@4	39.38997485	-108.10762162	Other	11/09/2023	11:29 AM	4 to 4	0	N	N	
20231109-OP33-(FC-WH-Keinath 33-9)@5	39.38983263	-108.10742939	Wellhead	11/09/2023	11:03 AM	5 to 5	0	N	N	

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### Photo Log

Fig. 1: 20231109-OP33-(FC-WH-Keinath 33-9)@5



Fig. 2: 20231109-OP33-(FC-FL)@4



Fig. 3: North



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## COGCC Soil Sampling

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Caerus - 2023 Sampling Support  
Services  
20234315.001A  
Veith, Jordan

### Photo Log

**Fig. 4: East**



**Fig. 5: South**




**Fig. 6: West**



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Kleinfelder Representative *Signature*





 <p><b>KLEINFELDER</b> <i>Bright People. Right Solutions.</i></p> <p>www.kleinfelder.com</p>	PROJECT NO.	20234315.001A	<b>Sample Locations</b>	<b>FIGURE</b>  <b>1</b>
	DRAWN:	11/9/2023		
	DRAWN BY:	T. Lakin		
	CHECKED BY:	J. Veith	Caerus Piceance, LLC OP33 SESE Sec. 33 T7S R96W Garfield County, Colorado	
	FILE NAME:	OP33 Sample Map.pub		