

March 14, 2022



Blair Rollins
Environmental Specialist
Caerus Oil & Gas LLC (Operator #: 10456)
brollins@caerusoilandgas.com

FIELD DAY REPORT – 03/02/2022

COGCC Location Name (ID)	NA
Operator Location Name	A03 Vault Valve Release
COGCC Facility Name	A03 Vault valve release /
COGCC Spill/Release Point ID	481663
Legal Description	NESE Sec. 3 T5S-R96W
Coordinates (Lat/Long)	39.643139 / -108.148575
County	Garfield County, Colorado

Mr. Rollins,

On March 9, 2022, Confluence personnel (Andy Smith) was onsite at the A03 Vault to conduct soil sampling and field screening associated with a valve release. The work was conducted to characterize potential impacts from the recent produced and fresh water release from the 2-inch blind valve flange in the vault. Below you will find a summary of the field notes (attached) and any pertinent information related to the project.

- Andy met Cameron (Caerus) at the Divide Road Treatment Facility prior to mobilizing to the spill location.
- Cameron entered the vault and collected soil for characterization and sample processing.
 - This was to avoid Health and Safety concerns associated with potential confined space entry as Cameron has clearance to enter the vault.
- One soil sample was collected from the base of the vault.
 - The sample was collected 3 to 4 inches below the base of the vault from approximately 12 feet below ground surface (bgs), or 15 below the top of the vault.
 - Staining and odor were noted in the soil sample.
 - A photoionization detector (PID) measurement of 106.8 parts per million (ppm) was recorded from the soil sample.

Site Diagrams, photographs, field notes and the associated safety documentation illustrating the day's activities are attached to this document. A Google Earth KMZ providing the Location of the samples is attached via e-mail for your reference. Additional photos and details regarding the field activities are available if needed. Confluence is grateful for the opportunity to support you with this project. If you have any questions, please do not hesitate to contact me.

Regards,

Chris McKisson
Senior Project Manager
(720) 490-6758
chris.mckisson@confluence-cc.com

Attachments:

Site Diagram – Site Investigation
Photographic Log
Field Notes – 03/09/2022
Job Safety Analysis – 03/09/2022
Chain of Custody – 03/09/2022

Site Diagram
Site Investigation

Caerus Oil and Gas LLC
A03 Vault Valve Release
COGCC Location ID: NA
Garfield County
NESE Sec. 3 T5S-R96W



20220309-A03_VAULT-POR@12'



Legend

-  Soil Sample – 03/09/2022
-  Vault – 03/09/2022

Spatial data was collected using a handheld GPS unit with submeter accuracy. Illustration discrepancies may be present in this diagram due to the inherent limitations of data accuracy for both project data and the underlying aerial imagery. The position of illustrated data may have been manually adjusted to align with the aerial imagery in a manner more representative of field conditions for presentation purposes only.

Map created by: Andrew Smith on 03/09/2022.



Photo Illustrations

Spill Characterization
A03 Vault Valve Release



A03 Vault - View East



Photo Illustrations

Spill Characterization
A03 Vault Valve Release



A03 Vault - View East



Photo Illustrations

Spill Characterization
A03 Vault Valve Release



Point of Release Sample Location

Location A03 VAULT

Date 3-7-22 139

Project / Client A03 VAULT RELEASE/CAERUS
ANDREW SMITH 20, 20+MPH, OIC

1050: MET CAMERON (CAERUS) @
DIVIDE ROAD TP. PROCEED TO
SITE. WILL BE COLLECTING ONE
SAMPLE FROM THE BASE OF
THE VAULT. CAMERON WILL BE
THE ONE ENTERING THE VAULT
& COLLECTING BASED ON MY
DIRECTION. TAILGATED JSA REVIEWED/SIGNED

PREFIX:

TIME	ID	PID	MATRIX	DOB	STAIN
1115	POR 12'	106.8	SILTY CLAY, SMALL GRAVEL		1/1

SAMPLE WAS COLLECTED FROM
UNDERNEATH POR, 12' BGS
& 15' FROM TOP OF VAULT.

SHOVEL WAS DECONNED W/
SIMPLE GREEN & RINSED PRIOR
TO USE. CAMERON CLEARED
SURFACE SOIL 3"-4" & COLLECTED
FROM BELOW THAT POINT

1135: OFFSITE.

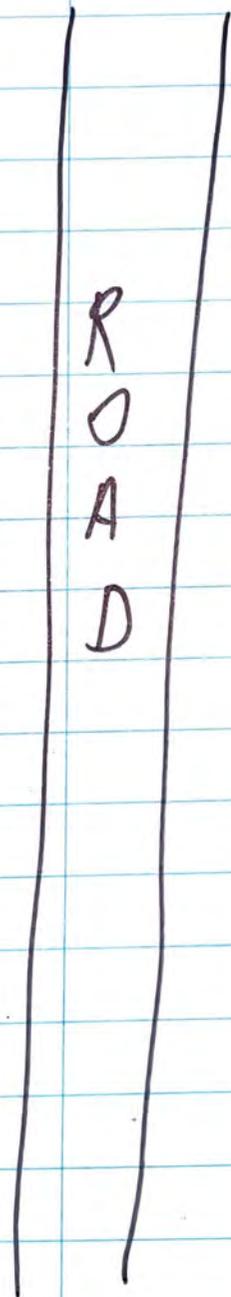
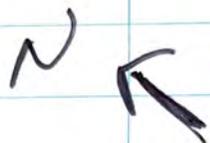
3' A-1
Handwritten signature

Location A03 VAULT

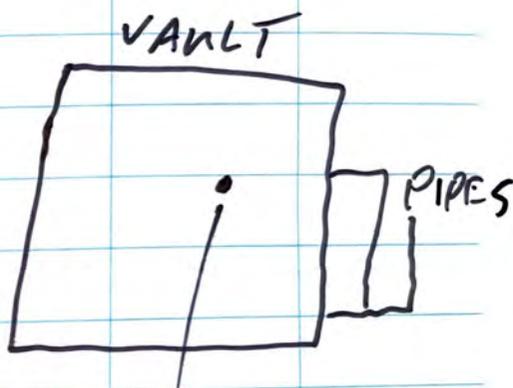
Date 3-9-22

Project / Client VAULT RELEASE/CAERUS

A. SMITH



R
O
A
D



SAMPLE
POINT

3-9-22
AS



JOB SAFETY ANALYSIS (JSA) (DAILY TAILGATE)

INCIDENT REPORTING

Call **911** for a fatality, life-threatening injury, threat to the public, or impact to a public byway. Then notify your supervisor.

Notify your supervisor and call WorkCare (888-449-7787) for non-emergency injuries to Confluence personnel.

Notify your supervisor for all other incidents (spills, equipment damage, dead or injured wildlife, issues with the public)

This form must be completed in its entirety. BLANK FIELDS ARE INCOMPLETE and will be viewed as noncompliant with the requirements for completing this form. If a section is not applicable (NA), mark it so.		Completion of this atmospheric monitoring section is critical for ensuring calibration and use of a 4-gas monitor.							
JSA Completed By: Andre Smith		Date: 03/09/2021		Time of Reading	Wind Direction	O2 (%)	LEL (%)	H2S (ppm)	CO (ppm)
Confluence Supervisor Name & Phone Number: Chris McKisson (720-490-6758)				1100	S to N	20.9	0.0	0.0	0.0
Client Representative(s) & Phone Number(s): B. Rollins 970-640-6919									
Work Description: Soil sampling from vault									
Location(s) Visited: A03									
Is Lockout/Tagout required? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes - Please explain:		Simultaneous operations on Location? <input checked="" type="checkbox"/> No Yes - Please explain:		Other document(s)/permit(s) required: <input type="checkbox"/> Confluence Ground Disturbance <input type="checkbox"/> Hot Work Permit <input type="checkbox"/> Client Ground Disturbance <input type="checkbox"/> Other:					
Required PPE for Job Task: (Check all that apply)									
<input type="checkbox"/> Goggles <input checked="" type="checkbox"/> Safety Boots <input checked="" type="checkbox"/> Hard Hat <input type="checkbox"/> Lifeline/Body Harness <input type="checkbox"/> Face Shield <input checked="" type="checkbox"/> PPE Clothing (FRC) <input checked="" type="checkbox"/> Safety Glasses <input type="checkbox"/> Hearing Protection <input type="checkbox"/> Gloves <input checked="" type="checkbox"/> Gas Monitor <input type="checkbox"/> HI-VIS FR Vest									
Major Job Steps – List all the steps / tasks needed to perform the job for the day			Potential Hazards – Describe the potential hazards associated with the major job steps			Actions taken to control the Hazard – List ways to mitigate the potential hazards associated with the major job steps			
Mobilization			Traffic accidents/wet roads & poor weather			Slow down, maintain vigilance, defensive driving			
Soil Sampling			Open vault			Caution in/near vault, DO NOT ENTER! Only authorized personnel.			
			Muddy and snowy conditions lead to STFs			Proper footwear/caution			
			Potential high pressure Lines			Awareness. Do not dig.			

It's YOUR responsibility to Stop Work!

HAZARDS			
Potential Hazards		Recommended Hazard Controls	
1	Access/Egress	Designated evacuation routes	Use ladder
2	Atmospheric Conditions (H2S, LEL, etc)	Purge/Ventilation area	Slope/trench excavation
3	Congested/Conflicting Work Activities	Conduct air monitoring	Use breathing apparatus
4	Review site layout	Communicate w/ others	Identify work areas
5	Energy Sources (Hydraulic, pneumatic,	Lockout/Tagout	Blank/Blind procedure
6	Excavation/Trenching	Proper Excavation	De-pressure lines
7	Fire & Explosion	Use engineered shoring	Secure open excavation
8	Flammable Materials	Site Layout	Fire ex./Monitor LEL
9	Hazardous Materials	Review MSDS (SDS)	Use proper PPE
10	Hazardous Waste	Review MSDS (SDS)	Use proper PPE
11	Use Proper PPE	Use proper containment	Use less harmful product
12	Heat / Cold Stress	Wear proper clothing	Use proper storage cont.
13	Ignition Sources/Static	Intrinsically safe equipment	Hydrate
14	Inexperienced Workers	Identify Workers	Monitor personal status
15	Weather Conditions	Wear proper clothing	Use grounding/bonding
16	Lighting	Provide extra lighting	Provide direct supervision
17	Mobile Equipment	Wear Hi-Vis Vests	Plan ahead
18	Noise Levels	Isolate noise source	Schedule work during day
19	Overhead Hazards	Post warning signs	Monitor personal status
20	Overhead Power lines	Review OHP Guidelines	Back-up alarms on equip.
21	Pinch/Crush/Strike Points/Sharp Edges	Guards on equipment	Use spotters/Flagger
22	Rotating Equipment	Guards on equipment	Wear hearing protection
23	Slips/Trips/Falls	Proper house keeping	Post warning signs
24	Strains/Sprains (Manual Lifting and Ergonomics)	Proper lifting techniques	Barricade/Rope off area
25	Wildlife / Livestock (Animals, Bugs, etc)	Avoidance / Awareness	Complete OHP Form
	Working Alone	Working in pairs	Contact power line op
	Working at elevated heights	Install guardrails	Read/post warning signs
			Wear gloves
			No loose clothing
			Post pinch point signs
			Wear proper footwear
			Focus on task
			Use two people to lift
			Move smaller quantities
			Snake Chaps
			Proper waste/storage
			Work alone procedure
			Communication system
			Use fall protection

Emergency Phone #s

Anadarko/Oxy IOC (Colorado) (970) 506-5980
 Anadarko/Oxy (Wyoming) (307) 670-6041
 Bums & McDonnell (303) 883-4169
 Crestone Peak Resources (303) 659-7740
 Carbon Creek (307) 655-7022
 CH2M (720) 286-0619
 Devon Energy Production, LP 307-687-0883
 Extraction Oil & Gas Inc. (970) 778-5956
 EOG (303) 596-9941
 FDL (307) 797-0793
 Grizzly Energy (307) 299-2140
 Magellan (800) 720-2417
 Noble Energy (281) 872-3100
 PDC (303) 831-3900
 Richardson (701) 388-0723
 Samson Energy Company 713-471-4501
 True Oil (307) 247-3703
 Caerus OCC: 970-285-2615

Command Center (303) 286-0844
 People Ready (303) 429-1521

Awesome Towing & Recovery (303) 883-5800
 Little Tornado Towing & Recovery (970) 371-9099
 EZ Towing & Recovery (307) 670-8595

Confluence Supervisor	Phone #
Chris Hines	970-261-1127
Brian Gibson	423-956-0813

By signing this JSA, I attest that I have read and fully understand the job hazards, processes, and safe work practices associated with the Scope of work as outlined on the reverse side of this JSA. If I have any questions or concerns regarding the information outlined in this JSA, I will contact the immediate supervisor on location. I understand that if a health or safety hazard puts me or any of my colleagues in a situation where imminent danger (including death, serious injury or illness) is present – **it is my responsibility to stop the job.**

JSA PARTICIPANTS:

Print: ANDREW SMITH Sign: [Signature]

Print: _____ Sign: _____

It's YOUR responsibility to Stop Work!

