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2655 Park Center Dr., Suite A  
Simi Valley, CA 93065  
T: +1 805 526 7161  
[www.alsglobal.com](http://www.alsglobal.com)

## LABORATORY REPORT

May 6, 2021

Jake Janicek  
Caerus Oil and Gas LLC  
120 North Railroad Ave.  
Parachute, CO 81635

**RE: EHS H2S Work**

Dear Jake:

Enclosed are the results of the samples submitted to our laboratory on April 30, 2021. For your reference, these analyses have been assigned our service request number P2102295.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at [www.alsglobal.com](http://www.alsglobal.com). Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

**ALS | Environmental**

By Sue Anderson at 3:32 pm, May 06, 2021

Sue Anderson  
Project Manager



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Client: Caerus Oil and Gas LLC  
Project: EHS H2S Work

Service Request No: P2102295

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### CASE NARRATIVE

The samples were received intact under chain of custody on April 30, 2021 and were stored in accordance with the analytical method requirements. The samples were received past the recommended holding time. The analysis was performed as soon as possible after receipt by the laboratory. The data is flagged to indicate the holding time exceedance. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

#### Hydrogen Sulfide Analysis

The samples were analyzed for hydrogen sulfide per modified SCAQMD Method 307-91 and ASTM D 5504-12 using a gas chromatograph equipped with a sulfur chemiluminescence detector (SCD). Method ASTM D 5504-12 is included on the laboratory's NELAP scope of accreditation, however it is not part of the DoD-ELAP accreditation. Method SCAQMD 307-91 is not included on the laboratory's NELAP or DoD-ELAP accreditation.

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*The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.*

*Use of ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.*



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ALS Environmental – Simi Valley

CERTIFICATIONS, ACCREDITATIONS, AND REGISTRATIONS

Agency	Web Site	Number
Alaska DEC	<a href="http://dec.alaska.gov/eh/lab.aspx">http://dec.alaska.gov/eh/lab.aspx</a>	17-019
Arizona DHS	<a href="http://www.azdhs.gov/preparedness/state-laboratory/lab-licensure-certification/index.php#laboratory-licensure-home">http://www.azdhs.gov/preparedness/state-laboratory/lab-licensure-certification/index.php#laboratory-licensure-home</a>	AZ0694
Florida DOH (NELAP)	<a href="http://www.floridahealth.gov/licensing-and-regulation/environmental-laboratories/index.html">http://www.floridahealth.gov/licensing-and-regulation/environmental-laboratories/index.html</a>	E871020
Louisiana DEQ (NELAP)	<a href="http://www.deq.louisiana.gov/page/la-lab-accreditation">http://www.deq.louisiana.gov/page/la-lab-accreditation</a>	05071
Maine DHHS	<a href="http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/professionals/labCert.shtml">http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/professionals/labCert.shtml</a>	2018027
Minnesota DOH (NELAP)	<a href="http://www.health.state.mn.us/accreditation">http://www.health.state.mn.us/accreditation</a>	1776326
New Jersey DEP (NELAP)	<a href="http://www.nj.gov/dep/enforcement/oqa.html">http://www.nj.gov/dep/enforcement/oqa.html</a>	CA009
New York DOH (NELAP)	<a href="http://www.wadsworth.org/labcert/elap/elap.html">http://www.wadsworth.org/labcert/elap/elap.html</a>	11221
Oregon PHD (NELAP)	<a href="http://www.oregon.gov/oha/ph/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx">http://www.oregon.gov/oha/ph/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx</a>	4068-008
Pennsylvania DEP	<a href="http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx">http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx</a>	68-03307 (Registration)
PJLA (DoD ELAP)	<a href="http://www.pjlabs.com/search-accredited-labs">http://www.pjlabs.com/search-accredited-labs</a>	65818 (Testing)
Texas CEQ (NELAP)	<a href="http://www.tceq.texas.gov/agency/qa/env_lab_accreditation.html">http://www.tceq.texas.gov/agency/qa/env_lab_accreditation.html</a>	T104704413-19-10
Utah DOH (NELAP)	<a href="http://health.utah.gov/lab/lab_cert_env">http://health.utah.gov/lab/lab_cert_env</a>	CA016272019-10
Washington DOE	<a href="http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html">http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html</a>	C946

Analyses were performed according to our laboratory's NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at [www.alsglobal.com](http://www.alsglobal.com), or at the accreditation body's website.

Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.

# ALS ENVIRONMENTAL

## DETAIL SUMMARY REPORT

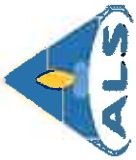
Client: Caerus Oil and Gas LLC  
Project ID: EHS H2S Work

Service Request: P2102295

Date Received: 4/30/2021  
Time Received: 09:30

ASTM D 5504-12 - H2S Bag

Client Sample ID	Lab Code	Matrix	Date Collected	Time Collected	
20210428 07G Fed 07-32C	P2102295-001	Air	4/28/2021	09:35	X
20210428 07D Fed 07-11D	P2102295-002	Air	4/28/2021	08:45	X
20210428 07D Fed 07-24C	P2102295-003	Air	4/28/2021	08:20	X
20210428 07G Fed 07-43A	P2102295-004	Air	4/28/2021	09:30	X
20210428 07D Fed 07-12B	P2102295-005	Air	4/28/2021	08:30	X
20210428 07D Fed 07-12A	P2102295-006	Air	4/28/2021	08:35	X



# Air - Chain of Custody Record & Analytical Service Request

2655 Park Center Drive, Suite A  
 Simi Valley, California 93065  
 Phone (805) 526-7161  
 Fax (805) 526-7270

<b>Requested Turnaround Time in Business Days (Surcharges) please circle</b> 1 Day (100%) 2 Day (75%) 3 Day (50%) 4 Day (35%) 5 Day (25%) 10 Day-Standard		ALS Project No: <u>PH0295</u>						
<b>Company Name &amp; Address (Reporting Information)</b> Carus oil and gas 143 Diamond Ave Parachute Co 91635		ALS Contact:						
<b>Project Manager</b> Jake Janicek		<b>Project Name</b> EHS H2S work						
<b>Phone</b> 970-778-2314		<b>Project Number</b>						
<b>Fax</b>		<b>Analysis Method</b>						
<b>Email Address for Result Reporting</b> JJanicek@carus oil and gas, com		<b>Comments</b> e.g. Actual Preservative or specific instructions						
<b>Sampler (Print &amp; Sign)</b>								
Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Canister ID (Bar code # - AC, SC, etc.)	Flow Controller ID (Bar code # - FC #)	Canister Start Pressure "Hg	Canister End Pressure "Hg/psig	Sample Volume
202-0428 07D Fed 07-12A	1	4-28-21	9:35					
202-0428 07D Fed 07-12A	2	4-28-21	8:45					
202-0428 07D Fed 07-12A	3	4-28-21	8:30					
202-0428 07D Fed 07-12A	4	4-28-21	9:30					
202-0428 07D Fed 07-12A	5	4-28-21	8:30					
202-0428 07D Fed 07-12A	6							
202-0428 07D Fed 07-12A	7							
202-0428 07D Fed 07-12A	8							
202-0428 07D Fed 07-12A	9							
202-0428 07D Fed 07-12A	10							
202-0428 07D Fed 07-12A	11							
202-0428 07D Fed 07-12A	12							
202-0428 07D Fed 07-12A	13							
202-0428 07D Fed 07-12A	14							
202-0428 07D Fed 07-12A	15							
202-0428 07D Fed 07-12A	16							
202-0428 07D Fed 07-12A	17							
202-0428 07D Fed 07-12A	18							
202-0428 07D Fed 07-12A	19							
202-0428 07D Fed 07-12A	20							
202-0428 07D Fed 07-12A	21							
202-0428 07D Fed 07-12A	22							
202-0428 07D Fed 07-12A	23							
202-0428 07D Fed 07-12A	24							
202-0428 07D Fed 07-12A	25							
202-0428 07D Fed 07-12A	26							
202-0428 07D Fed 07-12A	27							
202-0428 07D Fed 07-12A	28							
202-0428 07D Fed 07-12A	29							
202-0428 07D Fed 07-12A	30							
202-0428 07D Fed 07-12A	31							
202-0428 07D Fed 07-12A	32							
202-0428 07D Fed 07-12A	33							
202-0428 07D Fed 07-12A	34							
202-0428 07D Fed 07-12A	35							
202-0428 07D Fed 07-12A	36							
202-0428 07D Fed 07-12A	37							
202-0428 07D Fed 07-12A	38							
202-0428 07D Fed 07-12A	39							
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202-0428 07D Fed 07-12A	41							
202-0428 07D Fed 07-12A	42							
202-0428 07D Fed 07-12A	43							
202-0428 07D Fed 07-12A	44							
202-0428 07D Fed 07-12A	45							
202-0428 07D Fed 07-12A	46							
202-0428 07D Fed 07-12A	47							
202-0428 07D Fed 07-12A	48							
202-0428 07D Fed 07-12A	49							
202-0428 07D Fed 07-12A	50							
202-0428 07D Fed 07-12A	51							
202-0428 07D Fed 07-12A	52							
202-0428 07D Fed 07-12A	53							
202-0428 07D Fed 07-12A	54							
202-0428 07D Fed 07-12A	55							
202-0428 07D Fed 07-12A	56							
202-0428 07D Fed 07-12A	57							
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202-0428 07D Fed 07-12A	63							
202-0428 07D Fed 07-12A	64							
202-0428 07D Fed 07-12A	65							
202-0428 07D Fed 07-12A	66							
202-0428 07D Fed 07-12A	67							
202-0428 07D Fed 07-12A	68							
202-0428 07D Fed 07-12A	69							
202-0428 07D Fed 07-12A	70							
202-0428 07D Fed 07-12A	71							
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202-0428 07D Fed 07-12A	73							
202-0428 07D Fed 07-12A	74							
202-0428 07D Fed 07-12A	75							
202-0428 07D Fed 07-12A	76							
202-0428 07D Fed 07-12A	77							
202-0428 07D Fed 07-12A	78							
202-0428 07D Fed 07-12A	79							
202-0428 07D Fed 07-12A	80							
202-0428 07D Fed 07-12A	81							
202-0428 07D Fed 07-12A	82							
202-0428 07D Fed 07-12A	83							
202-0428 07D Fed 07-12A	84							
202-0428 07D Fed 07-12A	85							
202-0428 07D Fed 07-12A	86							
202-0428 07D Fed 07-12A	87							
202-0428 07D Fed 07-12A	88							
202-0428 07D Fed 07-12A	89							
202-0428 07D Fed 07-12A	90							
202-0428 07D Fed 07-12A	91							
202-0428 07D Fed 07-12A	92							
202-0428 07D Fed 07-12A	93							
202-0428 07D Fed 07-12A	94							
202-0428 07D Fed 07-12A	95							
202-0428 07D Fed 07-12A	96							
202-0428 07D Fed 07-12A	97							
202-0428 07D Fed 07-12A	98							
202-0428 07D Fed 07-12A	99							
202-0428 07D Fed 07-12A	100							

**Report Tier Levels - please select**  
 Tier I - Results (Default if not specified) \_\_\_\_\_  
 Tier II (Results + QC Summaries) \_\_\_\_\_  
 Tier III (Results + QC & Calibration Summaries) \_\_\_\_\_  
 Tier IV (Data Validation Package) 10% Surcharge \_\_\_\_\_

EDD required Yes / No \_\_\_\_\_ Units: \_\_\_\_\_

Chain of Custody Seal: (Circle)  
 INTACT BROKEN ABSENT

Received by: (Signature) [Signature] Date: 4-28-21 Time: 10:00  
 Received by: (Signature) [Signature] Date: 4-28-21 Time: 10:30

Project Requirements (MRLs, QAPP)  
 Cooler / Blank Temperature °C



# ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 1

**Client:** Caerus Oil and Gas LLC  
**Client Project ID:** EHS H2S Work

ALS Project ID: P2102295

### Hydrogen Sulfide

Test Code: ASTM D 5504-12  
 Instrument ID: Agilent 7890A/GC22/SCD  
 Analyst: Gilbert Gutierrez  
 Sample Type: 1 L Zefon Bag(s)  
 Test Notes:

Date(s) Collected: 4/28/21  
 Date Received: 4/30/21  
 Date Analyzed: 4/30/21

Client Sample ID	ALS Sample ID	Injection		Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	Data Qualifier
		Volume ml(s)	Time Analyzed					
20210428 07G Fed 07-32C	P2102295-001	0.10	11:48	110,000	70	79,000	50	H3
20210428 07D Fed 07-11D	P2102295-002	0.10	11:54	71,000	70	51,000	50	H3
20210428 07D Fed 07-24C	P2102295-003	0.10	12:00	100,000	70	75,000	50	H3
20210428 07G Fed 07-43A	P2102295-004	0.10	12:06	160,000	70	110,000	50	H3
20210428 07D Fed 07-12B	P2102295-005	0.10	12:13	33,000	70	23,000	50	H3
20210428 07D Fed 07-12A	P2102295-006	0.10	12:20	80,000	70	58,000	50	H3
Method Blank	P210430-MB	1.0	07:48	ND	7.0	ND	5.0	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

H3 = Sample was received and analyzed past holding time.

# ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 1

**Client:** Caerus Oil and Gas LLC  
**Client Sample ID:** Lab Control Sample  
**Client Project ID:** EHS H2S Work

ALS Project ID: P2102295  
ALS Sample ID: P210430-LCS

Test Code: ASTM D 5504-12  
Instrument ID: Agilent 7890A/GC22/SCD  
Analyst: Gilbert Gutierrez  
Sample Type: 1 L Zefon Bag  
Test Notes:

Date Collected: NA  
Date Received: NA  
Date Analyzed: 4/30/21  
Volume(s) Analyzed: NA ml(s)

CAS #	Compound	Spike Amount ppbV	Result ppbV	% Recovery	ALS Acceptance Limits	Data Qualifier
7783-06-4	Hydrogen Sulfide	989	1,140	115	72-122	