

### Technical Report for

**Renegade Oil & Gas**

REM 9615

Document 2527700

**Bird State 32-1 Pit**

**SGS Accutest Job Number: D91976**

**Sampling Date: 03/10/17**

#### Report to:

Renegade Oil & Gas  
P.O. Box 460413  
Aurora, CO 80046  
jbcrog@aol.com

**ATTN: JB Condill**

**Total number of pages in report: 18**



Test results contained within this data package meet the requirements  
of the National Environmental Laboratory Accreditation Program  
and/or state specific certification programs as applicable.



**Scott Heideman**  
**Laboratory Director**

**Client Service contact: Cristina Araujo 303-425-6021**

Certifications: CO (CO00049), ID (CO00049), NE (NE-OS-06-04), ND (R-027), NJ (CO007), OK (D9942)  
UT (NELAP CO00049), LA (LA150028), TX (T104704511), WY (8TMS-L)

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Test results relate only to samples analyzed.

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Sample Summary

Renegade Oil & Gas

Job No: D91976

Bird State 32-1 Pit

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
D91976-1	03/10/17	09:50	CB	03/11/17	SO Soil	RECLAIMED PIT #1- SOUTH 12YD
D91976-2	03/10/17	09:53	CB	03/11/17	SO Soil	RECLAIMED PIT #2- WEST 12YDS
D91976-3	03/10/17	09:55	CB	03/11/17	SO Soil	RECLAIMED PIT #3- EAST 15YDS
D91976-4	03/10/17	09:58	CB	03/11/17	SO Soil	RECLAIMED PIT #4- NORTH 12YDS
D91976-5	03/10/17	10:00	CB	03/11/17	SO Soil	RECLAIMED PIT #5-NE 12YDS

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

## CASE NARRATIVE / CONFORMANCE SUMMARY

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**Client:** Renegade Oil & Gas

**Job No** D91976

**Site:** Bird State 32-1 Pit

**Report Date** 3/27/2017 6:33:40 PM

On 03/11/2017, 5 sample(s), 0 Trip Blank(s), and 0 Field Blank(s) were received at SGS Accutest Mountain States (SAMS) at a temperature of 1.1 °C. The samples were intact and properly preserved, unless noted below. An SAMS Job Number of D91976 was assigned to the project. The lab sample ID, client sample ID, and date of sample collection are detailed in the report's Results Summary.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

### Extractables by GC By Method SW846-8015B

**Matrix:** SO

**Batch ID:** OP14748

- All samples were extracted and analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D91976-5MS, D91976-5MSD were used as the QC samples indicated.

### Wet Chemistry By Method SM2540G-2011 M

**Matrix:** SO

**Batch ID:** GN38004

- The data for SM2540G-2011 M meets quality control requirements.

SAMS certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting AMS's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SAMS is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. This report is authorized by SAMS indicated via signature on the report cover.

Monday, March 27, 2017

Page 1 of 1

## Summary of Hits

Page 1 of 1

Job Number: D91976  
Account: Renegade Oil & Gas  
Project: Bird State 32-1 Pit  
Collected: 03/10/17

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
D91976-1	RECLAIMED PIT #1- SOUTH 12YD					
TPH-DRO (C10-C28)		631	11	10	mg/kg	SW846-8015B
D91976-2	RECLAIMED PIT #2- WEST 12YDS					
TPH-DRO (C10-C28)		895	12	11	mg/kg	SW846-8015B
D91976-3	RECLAIMED PIT #3- EAST 15YDS					
TPH-DRO (C10-C28)		33.6	11	10	mg/kg	SW846-8015B
D91976-4	RECLAIMED PIT #4- NORTH 12YDS					
TPH-DRO (C10-C28)		2330	120	110	mg/kg	SW846-8015B
D91976-5	RECLAIMED PIT #5-NE 12YDS					
TPH-DRO (C10-C28)		37.8	11	10	mg/kg	SW846-8015B

**Sample Results**

**Report of Analysis**

## Report of Analysis

<b>Client Sample ID:</b>	RECLAIMED PIT #1- SOUTH 12YD	<b>Date Sampled:</b>	03/10/17
<b>Lab Sample ID:</b>	D91976-1	<b>Date Received:</b>	03/11/17
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	87.0
<b>Method:</b>	SW846-8015B SW846 3546		
<b>Project:</b>	Bird State 32-1 Pit		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FI52121.D	1	03/20/17	CH	03/16/17	OP14748	GFI2189
Run #2							

	Initial Weight	Final Volume
Run #1	20.0 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	631	11	10	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	109%		41-134%		

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b>	RECLAIMED PIT #2- WEST 12YDS	<b>Date Sampled:</b>	03/10/17
<b>Lab Sample ID:</b>	D91976-2	<b>Date Received:</b>	03/11/17
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	84.1
<b>Method:</b>	SW846-8015B SW846 3546		
<b>Project:</b>	Bird State 32-1 Pit		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FI52123.D	1	03/20/17	CH	03/16/17	OP14748	GFI2189
Run #2							

	Initial Weight	Final Volume
Run #1	20.1 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	895	12	11	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	99%		41-134%		

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound



## Report of Analysis

<b>Client Sample ID:</b>	RECLAIMED PIT #3- EAST 15YDS	<b>Date Sampled:</b>	03/10/17
<b>Lab Sample ID:</b>	D91976-3	<b>Date Received:</b>	03/11/17
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	88.1
<b>Method:</b>	SW846-8015B SW846 3546		
<b>Project:</b>	Bird State 32-1 Pit		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FI52125.D	1	03/20/17	CH	03/16/17	OP14748	GFI2189
Run #2							

	Initial Weight	Final Volume
Run #1	20.1 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	33.6	11	10	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	88%		41-134%		

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

## Report of Analysis

Client Sample ID:	RECLAIMED PIT #4- NORTH 12YDS					Date Sampled:	03/10/17
Lab Sample ID:	D91976-4					Date Received:	03/11/17
Matrix:	SO - Soil					Percent Solids:	84.8
Method:	SW846-8015B SW846 3546						
Project:	Bird State 32-1 Pit						

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FI52303.D	10	03/27/17	GN	03/16/17	OP14748	GFI2201
Run #2							

	Initial Weight	Final Volume
Run #1	20.0 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	2330	120	110	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	109%		41-134%		

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b>	RECLAIMED PIT #5-NE 12YDS	
<b>Lab Sample ID:</b>	D91976-5	<b>Date Sampled:</b> 03/10/17
<b>Matrix:</b>	SO - Soil	<b>Date Received:</b> 03/11/17
<b>Method:</b>	SW846-8015B SW846 3546	<b>Percent Solids:</b> 89.5
<b>Project:</b>	Bird State 32-1 Pit	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FI52113.D	1	03/20/17	CH	03/16/17	OP14748	GFI2189
Run #2							

	Initial Weight	Final Volume
Run #1	20.0 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	37.8	11	10	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	108%		41-134%		

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

**Misc. Forms**

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**Custody Documents and Other Forms**

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**Includes the following where applicable:**

- Chain of Custody



ACCUTEST

## CHAIN OF CUSTODY

PAGE \_\_\_\_ OF \_\_\_\_

4036 Youngfield Street, Wheat Ridge, CO 80033  
TEL: 303-425-6021 FAX: 303-425-6854  
www.accutest.com

FED-EX Tracking #		Boiler Order Contact #	
SGS Accutest Quote #		SGS Accutest Job # <b>D91976</b>	
Client / Reporting Information		Project Information	
Company Name <b>Renegade Oil &amp; Gas Company LLC</b>		Project Name <b>Bnd State DRO</b>	
Street Address <b>6555 S. Main St Ste 210</b>		Street <b>New Angeles CREO</b>	
City <b>Aurora</b>		City, State <b>Angeleno County, CO</b>	
Project Contact <b>JB Gondil</b>		Project #	
Phone # <b>303 680 4725</b>		Client Purchase Order #	
Email <b>JBGONDIL@AOL.COM</b>		City, State ZIP	
Sampler(s) Name(s) <b>Cody Baylis</b>		Project Manager	
Field ID / Point of Collection		Attention:	
MECH/DI Val #		Collection	
Date		Time	
Samples by		Matrix	
# of bottles		# of bottles	
H2		H2	
H2O		H2O	
H2O2		H2O2	
H2O3		H2O3	
H2O4		H2O4	
H2O5		H2O5	
H2O6		H2O6	
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H2O295		H2O295	
H2O296		H2O296	
H2O297		H2O297	
H2O298		H2O298	
H2O299		H2O299	
H2O300		H2O300	
H2O301		H2O301	
H2O302		H2O302	
H2O303		H2O303	
H2O304		H2O304	
H2O305		H2O305	
H2O306		H2O306	
H2O307		H2O307	
H2O308		H2O308	
H2O309		H2O309	
H2O310		H2O310	
H2O311		H2O311	
H2O312		H2O312	
H2O313		H2O313	
H2O314		H2O314	
H2O315		H2O315	
H2O316		H2O316	
H2O317		H2O317	
H2O318		H2O318	
H2O319		H2O319	
H2O320		H2O320	
H2O321		H2O321	
H2O322		H2O322	
H2O323		H2O323	
H2O324		H2O324	
H2O325		H2O325	
H2O326		H2O326	
H2O327		H2O327	
H2O328		H2O328	
H2O329		H2O329	
H2O330		H2O330	
H2O331		H2O331	
H2O332		H2O332	
H2O333		H2O333	
H2O334		H2O334	
H2O335		H2O335	
H2O336		H2O336	
H2O337		H2O337	
H2O338		H2O338	
H2O339		H2O339	
H2O340		H2O340	
H2O341		H2O341	
H2O342		H2O342	
H2O343		H2O343	
H2O344		H2O344	
H2O345		H2O345	
H2O346		H2O346	
H2O347		H2O347	
H2O348		H2O348	
H2O349		H2O349	
H2O350		H2O350	
H2O351		H2O351	
H2O352		H2O352	
H2O353		H2O353	
H2O354		H2O354	
H2O355		H2O355	
H2O356		H2O356	
H2O357		H2O357	
H2O358		H2O358	
H2O359		H2O359	
H2O360		H2O360	
H2O361		H2O361	
H2O362		H2O362	
H2O363		H2O363	
H2O364		H2O364	
H2O365		H2O365	
H2O366		H2O366	
H2O367		H2O367	
H2O368		H2O368	
H2O369		H2O369	
H2O370			

## SGS Accutest Sample Receipt Summary

Job Number: D91976

Client: RENEGADE

Project: BIRD STATE DRO

Date / Time Received: 3/11/2017 8:05:00 AM

Delivery Method:

Airbill #'s: hd

Cooler Temps (Initial/Adjusted): #1: (1.1/1.1):

### Cooler Security

Y or N

- |                           |                                     |                          |                       |                                     |                          |
|---------------------------|-------------------------------------|--------------------------|-----------------------|-------------------------------------|--------------------------|
| 1. Custody Seals Present: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 3. COC Present:       | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Custody Seals Intact:  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 4. Smpl Dates/Time OK | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

### Cooler Temperature

Y or N

- |                              |                                     |                          |
|------------------------------|-------------------------------------|--------------------------|
| 1. Temp criteria achieved:   | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Cooler temp verification: | IR Gun;                             |                          |
| 3. Cooler media:             | Ice (Bag)                           |                          |
| 4. No. Coolers:              | 1                                   |                          |

### Quality Control Preservation

Y or N

N/A

- |                                 |                                     |                          |                                     |
|---------------------------------|-------------------------------------|--------------------------|-------------------------------------|
| 1. Trip Blank present / cooler: | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 2. Trip Blank listed on COC:    | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 3. Samples preserved properly:  | <input checked="" type="checkbox"/> | <input type="checkbox"/> |                                     |
| 4. VOCs headspace free:         | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Comments

### Sample Integrity - Documentation

Y or N

- |  |                                     |                          |
|--|-------------------------------------|--------------------------|
| 1. Sample labels present on bottles:   | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Container labeling complete:        | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Sample container label / COC agree: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

### Sample Integrity - Condition

Y or N

- |                                  |                                     |                          |
|----------------------------------|-------------------------------------|--------------------------|
| 1. Sample recvd within HT:       | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. All containers accounted for: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Condition of sample:          | Intact                              |                          |

### Sample Integrity - Instructions

Y or N

N/A

- |   |                                     |                                     |                                     |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1. Analysis requested is clear:           | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                                     |
| 2. Bottles received for unspecified tests | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |                                     |
| 3. Sufficient volume recvd for analysis:  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                                     |
| 4. Compositing instructions clear:        | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 5. Filtering instructions clear:          | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |

D91976: Chain of Custody

Page 2 of 2

**GC Semi-volatiles****QC Data Summaries**

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**Includes the following where applicable:**

- **Method Blank Summaries**
- **Blank Spike Summaries**
- **Matrix Spike and Duplicate Summaries**

## Method Blank Summary

Page 1 of 1

Job Number: D91976  
Account: RENOGCOA Renegade Oil & Gas  
Project: Bird State 32-1 Pit

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP14748-MB	FI52105.D	1	03/20/17	CH	03/16/17	OP14748	GFI2189

The QC reported here applies to the following samples:

Method: SW846-8015B

D91976-1, D91976-2, D91976-3, D91976-4, D91976-5

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	10	9.0	mg/kg	

CAS No.	Surrogate Recoveries	Limits
84-15-1	o-Terphenyl	114% 41-134%



## Blank Spike Summary

Page 1 of 1

Job Number: D91976  
Account: RENOGCOA Renegade Oil & Gas  
Project: Bird State 32-1 Pit

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP14748-BS	FI52107.D	1	03/20/17	CH	03/16/17	OP14748	GFI2189

The QC reported here applies to the following samples:

Method: SW846-8015B

D91976-1, D91976-2, D91976-3, D91976-4, D91976-5

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH-DRO (C10-C28)	250	186	74	35-130

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	117%	41-134%

\* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

Job Number: D91976  
Account: RENOGCOA Renegade Oil & Gas  
Project: Bird State 32-1 Pit

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP14748-MS	FI52109.D	1	03/20/17	CH	03/16/17	OP14748	GFI2189
OP14748-MSD	FI52111.D	1	03/20/17	CH	03/16/17	OP14748	GFI2189
D91976-5	FI52113.D	1	03/20/17	CH	03/16/17	OP14748	GFI2189

The QC reported here applies to the following samples:

Method: SW846-8015B

D91976-1, D91976-2, D91976-3, D91976-4, D91976-5

CAS No.	Compound	D91976-5 mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	Spike mg/kg	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH-DRO (C10-C28)	37.8		279	216	64	279	239	72	10	10-171/30

CAS No.	Surrogate Recoveries	MS	MSD	D91976-5	Limits
84-15-1	o-Terphenyl	101%	111%	108%	41-134%

\* = Outside of Control Limits.