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Oilfield Environmental and Compliance, INC.



Jack Jones  
ExxonMobil - Goleta  
12000 Calle Real  
Goleta, CA 93117

15 January 2016

RE: Santa Ynez Unit - LFC

Work Order: 1600235

Dear Client:

Enclosed is an analytical report for the above referenced project. The samples included in this report were received on 13-Jan-16 15:35 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Manual, applicable standard operating procedures, and other related documentation. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

A handwritten signature in cursive script that reads "Marissa Censullo".

Marissa L. Censullo

Project Manager

307 Roemer Way, Suite 300, Santa Maria, CA 93454

www.oecusa.com

TEL: (805) 922-4772

FAX: (805) 925-3378

Aug 18, 2017 4:53 PM(GMT-07:00)  
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ExxonMobil - Goleta 12000 Calle Real Goleta CA, 93117	Project: Santa Ynez Unit - LFC Project Number: Annual LFC Produced Crude Oil Project Manager: Jack Jones	Reported: 15-Jan-16 14:34
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**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
ABJ 3401A	1600235-01	Product	13-Jan-16 13:30	13-Jan-16 15:35
ABJ 3401B	1600235-02	Product	13-Jan-16 13:55	13-Jan-16 15:35

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**ABJ 3401A**  
**1600235-01 (Product)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Oilfield Environmental and Compliance</b>									
<b>ASTM/GPA/UOP/CARB Method</b>									
API gravity	20.7	0.1	°API	1	B6A0341	14-Jan-16	15-Jan-16	ASTM D287	
<b>BS&amp;W</b>									
Total Cut on Free Oil	0.050		% by Volume	1	B6A0334	14-Jan-16	15-Jan-16	ASTM D964007	
BS&W Water	0.000		"	"	"	"	"	"	
BS&W Sediment	0.050		"	"	"	"	"	"	
BS&W Emulsion	0.000		"	"	"	"	"	"	
BS&W Oil	99.950		"	"	"	"	"	"	
<b>Vapor Pressure</b>									
Reid Vapor Pressure (RVP)	3.60	0.05	psi	1	B6A0333	14-Jan-16	15-Jan-16	ASTM D323	
True Vapor Pressure (TVP)	2.9 @ 88°F	0.1	psia	"	"	"	"	CARB Calc.	

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**ABJ 3401B**  
**1600235-02 (Product)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Oilfield Environmental and Compliance**

ASTM/GPA/UOP/CARB Method

API gravity	20.0	0.1	°API	1	B6A0541	14-Jan-16	15-Jan-16	ASTM D287	
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BS&W

Total Cut on Free Oil	0.050		% by Volume	1	B6A0534	14-Jan-16	15-Jan-16	ASTM D964007	
BS&W Water	0.050		"	"	"	"	"	"	
BS&W Sediment	0.000		"	"	"	"	"	"	
BS&W Emulsion	0.000		"	"	"	"	"	"	
BS&W Oil	99.950		"	"	"	"	"	"	

Vapor Pressure

Reid Vapor Pressure (RVP)	4.00	0.05	psi	1	B6A0535	14-Jan-16	15-Jan-16	ASTM D523	
True Vapor Pressure (TVP)	3.6 @ 94°F	0.1	psia	"	"	"	"	CARB Calc.	

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**BS&W - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B6A0334 - ASTM Method Prep by volume**

Duplicate (B6A0334-DUP1)	Source: 1505430-01	Prepared: 14-Jan-16	Analyzed: 15-Jan-16
Total Cut on Free Oil	14.000	% by Volume	14.000
BS&W Water	13.950	"	13.950
BS&W Sediment	0.050	"	0.050
BS&W Emulsion	0.000	"	ND
BS&W Oil	86.000	"	86.000

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Notes and Definitions

- TVPa 3.6 @ 94°F
- TVP 2.9 @ 88°F
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

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Phone: (861) 762-9143

CHAIN OF CUSTODY

Page 1 of 1

Company: <b>EXXONMOBIL COMPANY</b>				Project Name#: <b>Annual LFC Produced Crude Oil</b>			
Address: <b>1200 Calle Real</b>				Site: <b>LFC</b>			
City/State/ZIP: <b>Goleta, CA 93117</b>				Analysis Requested		Special Instructions:	
Phone: <b>(805) 571-0426</b> Fax: _____ Email: <b>jack.jones@exxonmobil.com</b>				<b>HOST/VP</b> <b>APT Gravity</b> <b>BS&amp;W</b>			
Report To: <b>Jack Jones</b> Sampler: <b>CJ Reynolds</b>							
Report Format(s): <input type="checkbox"/> FAX <input type="checkbox"/> PDF (std) <input type="checkbox"/> COILUFT EDF <input type="checkbox"/> EDD <input type="checkbox"/>							
Turnaround Time: 10 Days <input type="checkbox"/> 5 Days (std) <input type="checkbox"/> 3 Days <input type="checkbox"/> 2 Days <input checked="" type="checkbox"/> 1 Day <input type="checkbox"/> ASAP <input type="checkbox"/>				NOTE: Samples received after 4:00PM will be considered as received the next business day			
DEC Sample ID	Date/Time Sampled	Matrix** (see key)	# of Cont.	Client Sample ID			
1600235-1A-C	8/13/16	P	3	ABJ 3401A		X	Temp @ 28° F
1600235-1A-C	8/13/16	P	3	ABJ 3401B		X	Temp @ 74° F
Relinquished By: <i>CJ Reynolds</i> Date: <b>01/12/16</b> Time: <b>1535</b>				Matrix Key**:		Comments/POB:	
Received By: <i>Alynn Jones</i> Date: <b>01-13-16</b> Time: <b>1535</b>				A = air / vapor		Ticket # <b>5002</b>	
Relinquished By: _____ Date: _____ Time: _____				AQ = aqueous		<b>Note: Gravity will determine vapor pressure method</b>	
Received By: _____ Date: _____ Time: _____				DW = drinking water			
Relinquished By: _____ Date: <b>Aug 18, 2016</b> Time: <b>4:53 PM (GMT)</b>				F = filter			
Received By: _____ Date: _____ Time: <b>10:09:71.03</b>				GW = ground water			
				M = product / oil			
				PW = product water			
				S = solid / sediment			
				SW = surface water			
				WP = waste			
				WW = waste water			







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Date: 01/13/2016	
Employee Name: Clarence Reynolds	
Client Name: Exxon Mobile	
Project / Site Name: Annual LFC Produced Crude Oil / LFC	
Roundtrip Drive Time: 2	Roundtrip Drive Mileage: 112
Start Field Time: 1300	Stop Field Time: 1430
Start Field Mileage: 131416	Stop Field Mileage: 131419
Consumables: 2 X HOST Chamber, 6 X Pint Mason Jar	
- 1 hour prep Time	
Description / Comment: Collected 2 Crude Oil Samples at the Las Flores Canyon Location for HOST/RVC/TVC API Gr., BS&W on 48 hr TAT	
Admin Use:	
Name:	Initials: Date:
Total Drive Time:	Total Field Time:
Total Drive Mileage:	Total Field Mileage:

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TICKET NO. 5002

File#2017SBC-1\_0000335