

December 31, 2014

GMG 280308-PW

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Mr. Isaac Chen
U.S. Environmental Protection Agency, Region 6
Regional Oil & Gas Coordinator
1445 Ross Avenue – Mail Code-6WQ-PP
Dallas Texas 75202-2733

Subject: GMG290000 Permit – Produced Water and Water Based Drilling Mud Characterization Study Peregrine Oil & Gas, I.P – GMG290308

Dear Mr. Chen.

Per the permit requirements in Part I B.4.c – Produced Water Characterization Study, Peregrine Od & Gas. LP has conducted an individual study and has collected one sample from each producing lease block for which they are the designated operator. Peregrine has not and will not have any drilling projects within the 3 year study time frame.

The produced water samples were analyzed for the required metals, including: Dissolved arsenic, dissolved cadmium, dissolved chromium (VI), dissolved copper, free cyanide, dissolved lead, dissolved mercury, dissolved nickel, dissolved selenium, dissolved silver, and dissolved zind.

The lease block areas reported on are: Galveston 155 - Platform A and West Delta 64 - Platform C

The analytical results are presented in the attached Excel worksheet. This letter and electronic report are being submitted via hard copy and small to chen, isaac@epa.gov. The complete analytical report from the laboratory can be provided upon request.

Should you have any questions, please call me or our consultant. Ms. Marsha Lutz, of J. Connor Consulting. Inc. at 281-696-8557.

Locatify under penalty of law that this document and all attachments were prepared under try direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

MEREGRINE OIL & GAS, LP

Darring Gree

Principal.

Attachment

REF: 075242/16120

Produced Water Characterization Study - Sampling Results Peregrine Oil & Gas, LP - GMG290308

Lease Block/Area	Lease No.	Sampling Date
West Delta 64 -Platform C	OCS-G: 25008	11/12/2013

Parameter *All metals analyzed for dissolved phase	Min. Conc. mg/L	Max.Conc. mg/L	Avg. Conc. mg/L	MAL mg/L
Arsenic	<0.100	<0.100	<0.100	0.100
Cadmium	< 0.050	<0.050	<0.050	0.050
Chromium, VI	<0.010	<0.010	<0.010	0.010
Copper	<0.100	<0.100	<0.100	0.100
Free Cyanide	<0.100	<0.100	<0.100	0.100
Lead	<0.050	<0.050	<0.050	0.050
Mercury	<0.0002	<0.0002	<0.0002	0.000
Nickel	<0.400	<0.400	<0.400	0.400
Selenium	< 0.350	<0.350	<0.350	0.350
Silver	<0.100	<0.100	<0.100	0.100
Zinc	<0.200	<0.200	<0.200	0.200

Lease Block/Area	Lease No.	Sampling Date
Galveston 155 -Platform A	OCS-G: 30654	12/12/2013

Parameter	Mîn.	Max.Conc.	Avg. Conc.	MAL
*All metals analyzed for	Conc.	mg/L	mg/L	mg/L
dissolved phase	mg/L	<u> </u>		
concentrations.		<u> </u>		
Arsenic	<0.100	<0.100	<0.100	0.100
Cadmium	<0.050	<0.050	<0.050	0.050
Chromium, VI	<0.010	<0.010	<0.010	0.010
Copper	<0.100	<0.100	<0.100	0.100
Free Cyanide	<0.100	<0.100	<0.100	0.100
Lead	<0.050	<0.050	<0.050	0.050
Mercury	<0.0002	<0.0002	<0.0002	0.000
Nickel	<0.400	<0.400	<0.400	0.400
Selenium	<0.350	< 0.350	<0.350	0.350
Silver	<0.100	<0.100	<0.100	0.100
Zinc	0.404	0.404	0.404	0.200

PEREGRINE OIL & GAS II, LLC

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January 9, 2014

FedEx Tracking No. 8018 1009 1101 27 PM 4: 11

Mr. Isaac Chen U.S. Environmental Protection Agency, Region 6 Regional Oil & Gas Coordinator 1445 Ross Avenue – Mail Code-6WQ-PP Dallas, Texas 75202-2735 PERMITS BRANCH 8WO-P

Subject: GMG290000 Permit -- Produced Water and Water Based Drilling Mud Characterization Study Peregrine Oil & Gas II, LLC -- GMG290345

Dear Mr. Chem.

Per the permit requirements in Part I B.4.c – Produced Water Characterization Study, Peregrine Oil & Gas II. LLC has conducted an individual study and has collected one sample from each producing lease block for which they are the designated operator. Peregrine Oil & Gas II has not and will not have any drilling projects within the 3-year study time frame.

the produced water samples were analyzed for the required metals, including: Dissolved arsenic, dissolved cadmium, dissolved chromium (VI), dissolved copper, free cyanide dissolved lead, dissolved mercury, dissolved nicket, dissolved selentum, dissolved silver, and dissolved zinc.

The lease block areas reported on include: North Padre Island 975 "A" and West Cameron 565 "A".

A summary or the analytical results are presented in the attached Excel worksheet and summary page of the laboratory report. This tetter and electronic report are being submitted via hard copy and email to when isaac@epa.gov. The complete analytical report from the laboratory can be provided upon request.

Should you have any questions, please call me or our consultant, Ms. Marsha Lutz, of J. Connor Consulting, Inc., at 281-698-8557.

copervision in accordance with a system designed to assure that qualified personnel property gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete i am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

PEREGRINE OIL & GAS II. LLC

Principal

Attachment

NEA: 015242/16139

Produced Water Characterization Study - Sampling Results Peregrine Oil & Gas II, LP - GMG290345

Lease Block/Area	Lease No.	Sampling Date
North Padre Island 975 -Pltfm A	OSC-G: 33388	11/21/2013

Parameter	Min.	Max.Conc.	Avg. Conc.	MAL
*All metals analyzed for dissolved	Conc.	mg/L	mg/L	mg/L
phase concentrations.	mg/L	_	<u> </u>	
Arsenic	<0.100	<0.100	<0.100	0.100
Cadmium	<0.050	<0.050	<0.050	0.050
Chromium, VI	<0.010	< 0.010	<0.010	0.010
Copper	<0.100	<0.100	<0.100	0.100
Free Cyanide	<0.100	<0.100	<0.100	0.100
Lead	<0.050	<0.050	<0.050	0.050
Mercury	<0.0002	<0.0002	<0.0002	0.000
Nickel	<0.400	<0.400	< 0.400	0.400
Selenium	<0.350	< 0.350	<0.350	0.350
Silver	<0.100	<0.100	<0.100	0.100
Zinc	<0.200	<0.200	<0.200	0.200

Lease Block/Area	Lease No.	Sampling Date
West Cameron 565 -Pitfm A	OSC-G: 02015	12/16/2013

Parameter *All metals analyzed for dissolved phase concentrations.	Min. Conc. mg/L	Max.Conc. mg/L	Avg. Conc. mg/L	MAL mg/L
Arsenic	<0.100	<0.100	<0.100	0.100
Cadmium	<0.050	<0.050	<0.050	0.050
Chromium, VI	<0.010	<0.010	<0.010	0.010
Copper	<0.100	<0.100	<0.100	0.100
Free Cyanide	<0.100	<0.100	<0.100	0.100
Lead	<0.050	<0.050	<0.050	0.050
Mercury	<0.0002	<0.0002	<0.0002	0.000
Nickel	<0.400	<0.400	<0.400	0.400
Selenium	<0.350	<0.350	<0.350	0.350
Silver	<0.100	<0.100	<0.100	0.100
Zinc	<0.200	<0.200	<0.200	0.200

SAMPLING INFORMATION

laboratory
technology
incorporated
A Division of
Patrick Services Corporation

Company: Peregrine Oil & Gas II, LLC

Location - Area/Block: West Cameron 565

Production Platform: A

OCS-G#: 2015

Sample Site: Skimmer

Type of Sampling: Chilled Grab

Control #	Date/Time Sampled	Date/Time Received		Sampled By	
PER32679-A	R32679-A 12-16-13/1115		12-17-13/0930		
Control#	Discharge Rate	Discharge Depth	Pipe Diameter	Temperature	
PER32679-A	Bbl/Day	Feet	Inch	Deg F	

TEST RESULTS LELAP # 02070, LELAP # 02079 & LELAP # 02006

Control #	Test	Result	MAL.	Analyst	Date/Time Analyzed
Control # PER32679-A PER32679-A PER32679-A PER32679-A PER32679-A PER32679-A	Arsenic (Dissolved) Cadmium (Dissolved) Chromium VI (Dissolved) Copper (Dissolved) Lead (Dissolved) Mercury (Dissolved) Nickel (Dissolved)	<.100 mg/L <.050 mg/L <.010 mg/L <.100 mg/L <.050 mg/L <.0002 mg/L <.400 mg/L	.100 mg/L .050 mg/L .010 mg/L .100 mg/L .050 mg/L .0002 mg/L .400 mg/L	MHB MHB LA MHB MHB MB MB MHB	12-24-13/1656 12-24-13/1656 12-17-13/1501 12-24-13/1656 12-24-13/1656 12-24-13/1656 12-24-13/1656 12-24-13/1656
PER32679-A PER32679-A PER32679-A PER32679-A	Setenium (Dissolved) Silver (Dissolved) Zinc (Dissolved) Free Cyanide	350 mg/L 100 mg/L 200 mg/L 100 mg/L	.350 mg/l. .100 mg/l. .200 mg/l. .100 mg/l.	MHB MHB IP	12-24-13/1656 12-24-13/1656 12-30-13/1022

NOTE: Sample was diluted for analysis. When samples have to be diluted for analysis due to interferencess that would damage the test equipment or mast the test results, the detection levels for various parameters are elevated as a result.

TEST REFERENCES: 40 CFR 136

CERTIFICATION

A project file was maintained during this test. Two persons checked all data transcribed to the report for accuracy. The test result(s) is—are only representative of the sample(s) submitted for analysis.

I certify that this report is in compliance with the terms and conditions of the contract, both technically and for completeness, I	tor
I certify that this report is in compliance with the terms and containing that this report or an alternate mesos of electronic	C
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other than the conditions detailed within. Release of the data contained in this hardspy by the following transmission, has been authorized by the Laboratory Operations Manager or the Manager's designee, as verified by the following	,
transmission, has been authorized by the Laboratory Operations Wallager at the	
signature.	

aignarare.

Signature:

Name: Leonard Johnson

Date:

-2-14

Title: Operations Manager