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TECHNICAL REPORT
CALIFORNIA WATER CODE DIRECTIVE PURSUANT TO SECTION 13267, CALIF.
REGARDING PRODUCED WATER DISCHARGE
PYRAMID OIL COMPANY
STANFORD LEASE
CARNEROS CREEK FIELD - SECTION 29, R28S, R20E, MD B&M
December 7, 2015

Pyramid Oil Company (Pyramid) is submitting this Technical Report pursuant to Central Valley Regional Water Quality Board's (Board) Order dated April 1, 2015. Pyramid is the operator of oil wells located on the Stanford Lease in Section 29, R28S, R20E, Carneros Creek Field, Kern County. The Stanford lease has 1 pond used in the process of petroleum production wastewater disposal. There are no other ponds or discharges of produced waters to land.

WATER SAMPLES: A representative water sample of the wastewater was collected from the discharge point to the pond. The required water quality analyses is presented in the attached Zalco Laboratories report, as well as on the enclosed CD excel file.

On July 9, 2015, water samples were collected at the point of discharge to ponds. The samples were collected by Thomas W. Ladd and Sean Spanier using appropriate water sampling protocol. Water sampling containers were provided by Zalco Laboratories. The wastewater samples were collected in the containers, labeled, placed in iced chests and transported to Zalco Laboratories, Inc. under chain of custody for analyses as directed in the Order.

SURFACE IMPOUNDMENTS DETAILS: The Pyramid produced water is a result of pumping oil and water from the subsurface Button Bed sand oil sand at a depth of 2150 feet. The oil and water are separated and contained at the surface tank facility. Water production is about 15 barrels per day. The wastewater is water-legged to the pond. As a result of retention time during tank oil/water separation, there was no visible crude oil discharged to the pond. This wastewater discharge operates 24 hours per day, 7 days a week, 12-months per year.

The locations and dimensions of each pond is presented in the following table.

TABLE
POND DETAILS

Pond 1

APN	085-170-49-00-2
Latitude	35.465663
Longitude	-119.84925
Length - feet	20
Width - feet	10
Depth - feet	12
Discharge/year (Barrels)	5,475

LOCATION MAPS: The following figures depict the Pyramid Stanford lease and facility schematic of the pond.

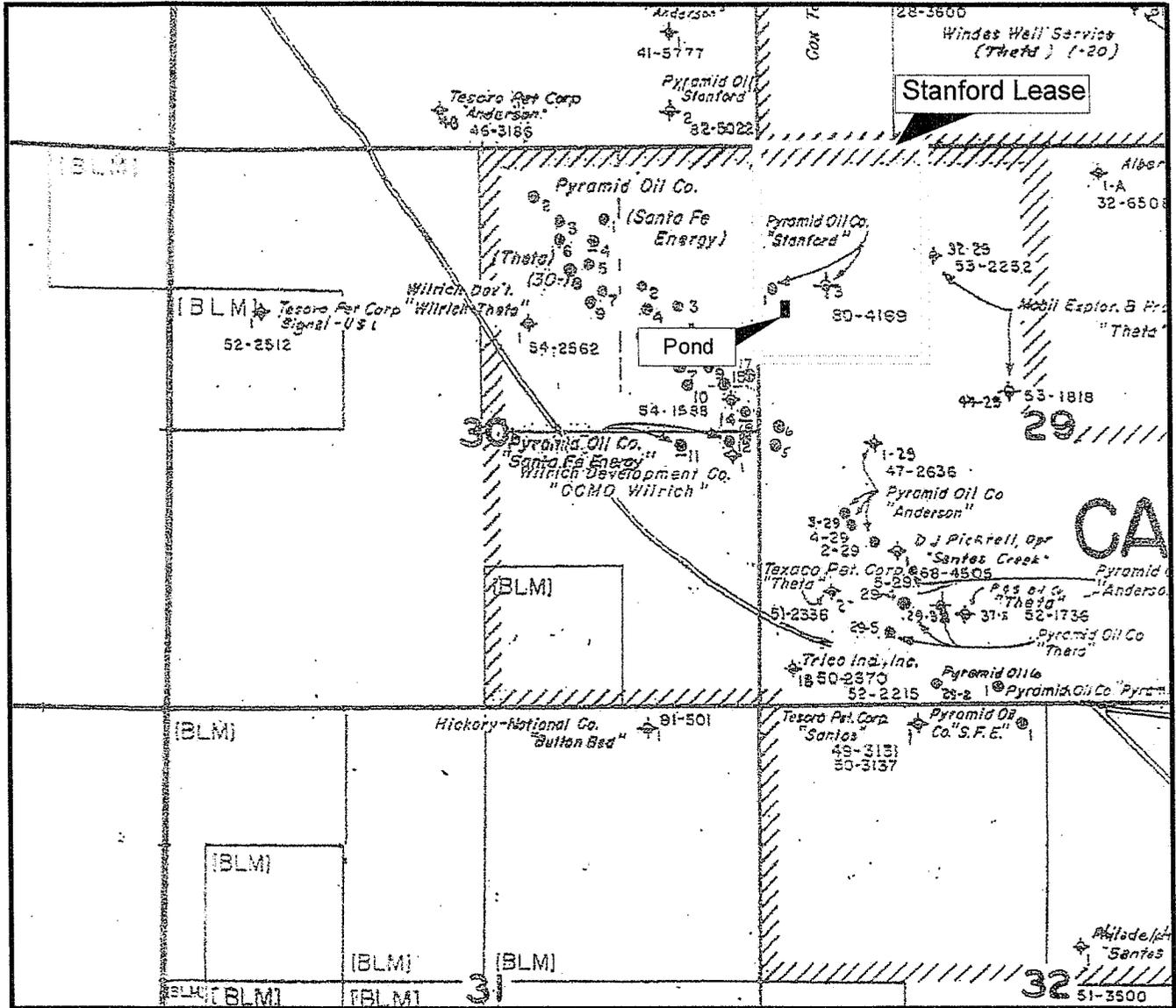


Figure 1 Lease Map
Stanford Lease
Section 29, T28S, R20E

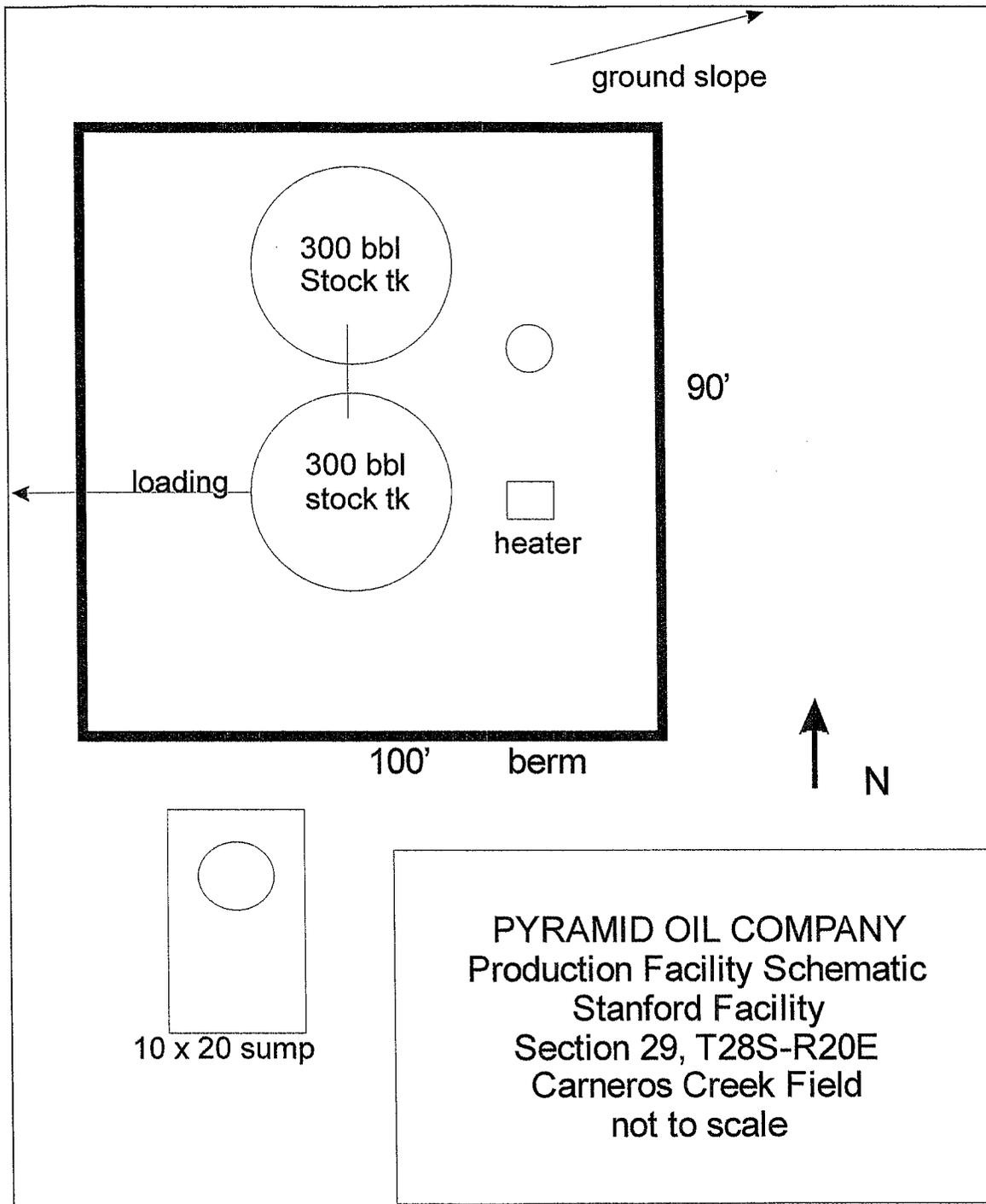


Figure 2 Facility Schematic
 Stanford Lease

ENVIRONMENTAL ASSESSMENT OF AREA OF INFLUENCE: The risk of adverse environmental impact to the area within the a ¼ mile radius area of influence by the discharge of oilfield produced wastewater into the Stanford pond is remote. First, the volume of water that is discharged is a moderate average 15 barrel of water per day to the pond. Second, there is no known source of drinking water, i.e., fresh groundwater is absent in the area. And third, the wastewater is non-hazardous.

As a result of this information and review it is concluded that the discharge of wastewater to ponds is a favorable means of wastewater disposal of non-hazardous water from the Pyramid's oil field operations. The risk of adverse environmental impact to the area of influence by the discharge of wastewater into the Pyramid ponds is remote.

Pursuant to this Technical Report, Pyramid plans to prepare an Application/Report of Waste Discharge, Form 200 in order to obtain a WDR for the ponds.

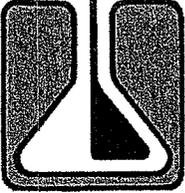
CERTIFICATION STATEMENT

I certify under penalty of law that this document and all attachments were prepared under my 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.



Thomas W. Ladd
California Professional Geologist #3568

Attachment: Zalco Laboratories Report of Analyses



ZALCO LABORATORIES, INC.

Analytical & Consulting Services

4309 Armour Avenue
Bakersfield, California 93308

(661) 395-0539
FAX (661) 395-3069

August 14, 2015

Sean Spanier
Pyramid Oil Company
P O Box 832
Bakersfield, CA 93302

TEL: (661) 325-1000
FAX: (661) 325-0100

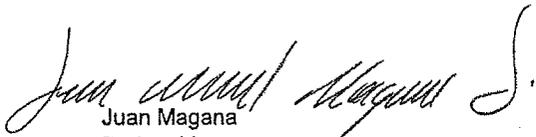
Project ID:
RE: 1507103

Dear Sean Spanier:

Zalco Laboratories, Inc. received 1 samples on 7/9/2015 for the analyses presented in the following report.

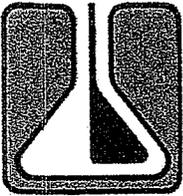
We appreciate your business and look forward to serving you in the future. Please feel free to call our office if you have any questions regarding these test results.

Sincerely,


Juan Magana
Project Manager
CC:

NSS: Non Sufficient Sample H: Exceeds Analysis Hold Time TTLC: Total Threshold Limit Concentration STLC: Soluble Threshold Limit Concentration TCLP: Toxicity Characteristic Leaching Procedure MCL: Maximum Contaminant Level *: See Case Narrative
The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Note: Samples analyzed for regulatory purposes should be put on ice immediately after sampling and received by the laboratory at temperatures between 0-6°C. Microbiological analysis requires samples to be at least 4-10°C when received at the laboratory. For additional information regarding the limitations of the method(s) referred to, please call us at 661-395-0539.



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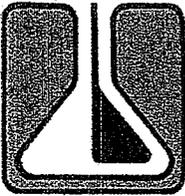
(661) 395-0539
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Table with 3 columns: Client Information (Pyramid Oil Company, P O Box 832, Bakersfield, CA 93302), Project Information (Project: RWQCB Oilfield Ponds - 2Q2015, Project #: , Attention: Sean Spanier), and Work Order Information (Work Order No.: 1507103, Reported: 08/14/2015, Received: 07/09/2015 12:25)

Table with 2 columns: Lab Sample ID: 1507103-01, Client Sample ID: Stanford Lease Produced Water Board Directive Section 13267, Collected By: Tom Ladd, Date Collected: 7/8/2015 12:00:00PM

Main data table with columns: Analyte, Results, PQL, Units, Flag, Method, Date Prepared, Date Analyzed, Init. Includes sections for Alkalinity, CAM, Toxicity (17 Metals) with TLC Limits, and General Chemistry with MCL Limits.

NSS: Non Sufficient Sample H: Exceeds Analysis Hold Time TTLC: Total Threshold Limit Concentration STLC: Soluble Threshold Limit Concentration TCLP: Toxicity Characteristic Leaching Procedure MCL: Maximum Contaminant Level * See Case Narrative
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Pyramid Oil Company P O Box 832 Bakersfield, CA 93302	Project: RWQCB Oilfield Ponds - 2Q2015 Project #: Attention: Sean Spanier	Work Order No.: 1507103 Reported: 08/14/2015 Received: 07/09/2015 12:25
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Lab Sample ID: 1507103-01	Collected By: Tom Ladd
Client Sample ID: Stanford Lease Produced Water Board Directive Section 13267	Date Collected: 7/8/2015 12:00:00PM

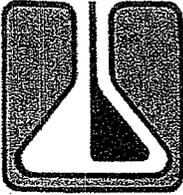
Analyte	Results	PQL	Units	Flag	Method	Date Prepared	Date Analyzed	Init.
Hardness								
Hardness (as CaCO3)	22	2.0	mg/L		SM 2340B	7/13/15	7/13/15	SS
Metals - As Received								
Lithium	<0.10	0.10	mg/L		EPA 200.7	7/13/15	7/14/15	SS
Magnesium	3.8	0.050	mg/L		EPA 200.7	7/13/15	7/13/15	SS
Potassium	4.7	0.50	mg/L		EPA 200.7	7/13/15	7/13/15	SS
Sodium	880	70	mg/L		EPA 200.7	7/13/15	7/13/15	SS
Calcium	2.4	0.050	mg/L		EPA 200.7	7/13/15	7/13/15	SS
Iron	0.27	0.10	mg/L		EPA 200.7	7/13/15	7/13/15	SS
Boron	1.7	0.10	mg/L		EPA 200.7	7/13/15	7/13/15	SS
Barium	<0.10	0.10	mg/L		EPA 200.7	7/13/15	7/13/15	SS
Copper	<0.050	0.050	mg/L		EPA 200.7	7/13/15	7/13/15	SS
Silica (SiO2)	22	4.0	mg/L		EPA 200.7	7/13/15	7/13/15	SS
Strontium	0.33	0.10	mg/L		EPA 200.7	7/13/15	7/13/15	SS
Manganese	<0.030	0.030	mg/L		EPA 200.7	7/13/15	7/13/15	SS
Petroleum Hydrocarbons								
Diesel Range Hydrocarbons	94.0	3.12	mg/L		SW846 8015B	7/17/15	7/21/15	BIG
Gasoline Range Hydrocarbons	<0.050	0.050	mg/L		SW846 8015B	7/20/15	7/20/15	HLP
Motor Oil Range Hydrocarbons	88.2	9.38	mg/L		SW846 8015B	7/17/15	7/21/15	BIG
Surrogates								
		% Recovery	Recovery Limits	Flag				
a,a,a-Trifluorotoluene		76.7	69-125				7/20/15 9:45	

Polynuclear Aromatic Hydrocarbons								
Indeno(1,2,3-cd)pyrene	<100	100	ug/L		SW846 8270C	7/15/15	7/21/15	JMM
Naphthalene	<100	100	ug/L		SW846 8270C	7/15/15	7/21/15	JMM
Acenaphthylene	<100	100	ug/L		SW846 8270C	7/15/15	7/21/15	JMM
Acenaphthene	<100	100	ug/L		SW846 8270C	7/15/15	7/21/15	JMM
Fluorene	<100	100	ug/L		SW846 8270C	7/15/15	7/21/15	JMM
Phenanthrene	<100	100	ug/L		SW846 8270C	7/15/15	7/21/15	JMM
Anthracene	<100	100	ug/L		SW846 8270C	7/15/15	7/21/15	JMM
Fluoranthene	<100	100	ug/L		SW846 8270C	7/15/15	7/21/15	JMM
Pyrene	<100	100	ug/L		SW846 8270C	7/15/15	7/21/15	JMM

NSS: Non Sufficient Sample H: Exceeds Analysis Hold Time TTL: Total Threshold Limit Concentration STLC: Soluble Threshold Limit Concentration TCLP: Toxicity Characteristic Leaching Procedure MCL: Maximum Contaminant Level *: See Case Narrative

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Lab Sample ID: 1507103-01	Collected By: Tom Ladd
Client Sample ID: Stanford Lease Produced Water Board Directive Section 13267	Date Collected: 7/8/2015 12:00:00PM

Analyte	Results	PQL	Units	Flag	Method	Date Prepared	Date Analyzed	Init.
Polynuclear Aromatic Hydrocarbons								
Benzo (a) anthracene	<100	100	ug/L		SW846 8270C	7/15/15	7/21/15	JMM
Chrysene	<100	100	ug/L		SW846 8270C	7/15/15	7/21/15	JMM
Benzo (b) fluoranthene	<100	100	ug/L		SW846 8270C	7/15/15	7/21/15	JMM
Benzo (k) fluoranthene	<100	100	ug/L		SW846 8270C	7/15/15	7/21/15	JMM
Benzo (a) pyrene	<100	100	ug/L		SW846 8270C	7/15/15	7/21/15	JMM
Dibenz (a,h) anthracene	<100	100	ug/L		SW846 8270C	7/15/15	7/21/15	JMM
Benzo (g,h,i) perylene	<100	100	ug/L		SW846 8270C	7/15/15	7/21/15	JMM
2-Methylnaphthalene	<100	100	ug/L		SW846 8270C	7/15/15	7/21/15	JMM
1-Methylnaphthalene	<100	100	ug/L		SW846 8270C	7/15/15	7/21/15	JMM

Surrogates	% Recovery	Recovery Limits	Flag	
Nitrobenzene-d5	40.1	0-95		7/21/15 11:06
2-Fluorobiphenyl	45.2	0-92		7/21/15 11:06
Terphenyl-d14	78.4	0-100		7/21/15 11:06

Subcontracted Analyses

Analyte	Results	PQL	Units	Flag	Method	Date Prepared	Date Analyzed	Init.
Gross Alpha	<15.0	15.0	pCi/L		SM 7110C	7/29/15	7/30/15	MCS
Radium-226	<3.00	3.00	pCi/L		E903.1	7/24/15	7/30/15	MCS
Radium-228	<2.00	2.00	pCi/L		EPA Ra-05	7/24/15	7/29/15	MCS
Uranium (ug/L)	<20.0	20.0	pCi/L		E908	8/12/15	8/12/15	MCS

Volatile Organic Compounds

Analyte	Results	PQL	Units	Flag	Method	Date Prepared	Date Analyzed	Init.
m,p-Xylene	5.17	5.00	ug/L		SW846 8260B	7/20/15	7/20/15	HLP
Benzene	<5.00	5.00	ug/L		SW846 8260B	7/20/15	7/20/15	HLP
Xylenes, total	5.17		ug/L		SW846 8260B	7/20/15	7/20/15	HLP
Methyl tert-Butyl Ether	<5.00	5.00	ug/L		SW846 8260B	7/20/15	7/20/15	HLP
Ethylbenzene	<5.00	5.00	ug/L		SW846 8260B	7/20/15	7/20/15	HLP
Toluene	5.51	5.00	ug/L		SW846 8260B	7/20/15	7/20/15	HLP
o-Xylene	<5.00	5.00	ug/L		SW846 8260B	7/20/15	7/20/15	HLP

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	111	89-165		7/20/15 14:12
Toluene-d8	83.2	65-124		7/20/15 14:12
4-Bromofluorobenzene	93.6*	94-114	S-GC	7/20/15 14:12

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