

**PERMIAN BASIN
ENVIRONMENTAL LAB, LP
1400 Rankin Hwy
Midland, TX 79701**



Analytical Report

Prepared for:

Aaron Pachlhofer
Fasken Oil & Ranch, Ltd.
6101 Holiday Hill Road
Midland, TX 79707

Project: Gossett 20
Project Number: [none]
Location: Eddy Co NM
Lab Order Number: 7H24008



NELAP/TCEQ # T104704516-16-7

Report Date: 08/28/17

Fasken Oil & Ranch, Ltd.
6101 Holiday Hill Road
Midland TX, 79707

Project: Gossett 20
Project Number: [none]
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Stockpile A	7H24008-01	Soil	08/23/17 09:47	08-24-2017 09:38
Stockpile B	7H24008-02	Soil	08/23/17 09:45	08-24-2017 09:38

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Stockpile A
7H24008-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

% Moisture	1.0	0.1	%	1	P7H2805	08/28/17	08/28/17	ASTM D2216	
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Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	139	126	mg/kg dry	5	P7H2515	08/25/17	08/25/17	TPH 8015M	
>C12-C28	3520	126	mg/kg dry	5	P7H2515	08/25/17	08/25/17	TPH 8015M	
>C28-C35	1180	126	mg/kg dry	5	P7H2515	08/25/17	08/25/17	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		<i>117 %</i>			<i>P7H2515</i>	<i>08/25/17</i>	<i>08/25/17</i>	<i>TPH 8015M</i>	
<i>Surrogate: o-Terphenyl</i>		<i>99.4 %</i>			<i>P7H2515</i>	<i>08/25/17</i>	<i>08/25/17</i>	<i>TPH 8015M</i>	
Total Petroleum Hydrocarbon C6-C35	4700	126	mg/kg dry	5	[CALC]	08/25/17	08/25/17	calc	

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Stockpile B
7H24008-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

% Moisture	5.0	0.1	%	1	P7H2805	08/28/17	08/28/17	ASTM D2216	
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Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.3	mg/kg dry	1	P7H2515	08/25/17	08/25/17	TPH 8015M	
>C12-C28	458	26.3	mg/kg dry	1	P7H2515	08/25/17	08/25/17	TPH 8015M	
>C28-C35	281	26.3	mg/kg dry	1	P7H2515	08/25/17	08/25/17	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		116 %	70-130		P7H2515	08/25/17	08/25/17	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		109 %	70-130		P7H2515	08/25/17	08/25/17	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	739	26.3	mg/kg dry	1	[CALC]	08/25/17	08/25/17	calc	

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General Chemistry Parameters by EPA / Standard Methods - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7H2805 - *** DEFAULT PREP ***										
Blank (P7H2805-BLK1)					Prepared & Analyzed: 08/28/17					
% Moisture	ND	0.1	%							
Duplicate (P7H2805-DUP1)					Source: 7H23006-02 Prepared & Analyzed: 08/28/17					
% Moisture	4.0	0.1	%		4.0			0.00	20	
Duplicate (P7H2805-DUP2)					Source: 7H24003-06 Prepared & Analyzed: 08/28/17					
% Moisture	11.0	0.1	%		10.0			9.52	20	
Duplicate (P7H2805-DUP3)					Source: 7H24005-03 Prepared & Analyzed: 08/28/17					
% Moisture	15.0	0.1	%		14.0			6.90	20	
Duplicate (P7H2805-DUP4)					Source: 7H25004-05 Prepared & Analyzed: 08/28/17					
% Moisture	5.0	0.1	%		6.0			18.2	20	

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Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P7H2515 - General Preparation (GC)

Blank (P7H2515-BLK1)

Prepared & Analyzed: 08/25/17

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	109		"	100		109	70-130			
Surrogate: o-Terphenyl	49.8		"	50.0		99.7	70-130			

LCS (P7H2515-BS1)

Prepared & Analyzed: 08/25/17

C6-C12	755	25.0	mg/kg wet	1000		75.5	75-125			
>C12-C28	958	25.0	"	1000		95.8	75-125			
Surrogate: 1-Chlorooctane	129		"	100		129	70-130			
Surrogate: o-Terphenyl	48.5		"	50.0		97.0	70-130			

LCS Dup (P7H2515-BSD1)

Prepared & Analyzed: 08/25/17

C6-C12	803	25.0	mg/kg wet	1000		80.3	75-125	6.22	20	
>C12-C28	972	25.0	"	1000		97.2	75-125	1.45	20	
Surrogate: 1-Chlorooctane	130		"	100		130	70-130			
Surrogate: o-Terphenyl	49.3		"	50.0		98.5	70-130			

Matrix Spike (P7H2515-MS1)

Source: 7H24006-04

Prepared: 08/25/17 Analyzed: 08/26/17

C6-C12	1100	27.8	mg/kg dry	1110	21.7	97.4	75-125			
>C12-C28	1270	27.8	"	1110	276	89.5	75-125			
Surrogate: 1-Chlorooctane	137		"	111		123	70-130			
Surrogate: o-Terphenyl	68.0		"	55.6		122	70-130			

Matrix Spike Dup (P7H2515-MSD1)

Source: 7H24006-04

Prepared: 08/25/17 Analyzed: 08/26/17

C6-C12	1100	27.8	mg/kg dry	1110	21.7	96.8	75-125	0.683	20	
>C12-C28	1290	27.8	"	1110	276	91.1	75-125	1.76	20	
Surrogate: 1-Chlorooctane	144		"	111		129	70-130			
Surrogate: o-Terphenyl	68.6		"	55.6		123	70-130			

Notes and Definitions

BULK	Samples received in Bulk soil containers
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
LCS	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

Report Approved By:



Date:

8/28/2017

Brent Barron, Laboratory Director/Technical Director

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