6101 Holiday Hill Road
Midland, TX 79707
(432) 687-1777
(432) 687-1570 (FAX)

March 12, 2019

Mr. Bradford Billings
New Mexico Energy, Mineral, and Natural Resources Department
Oil Conservation Division
1220 South St. Francis Street
Santa Fe, NM 87505

RE: 1RP-5042

Mr. Billings,

Thank you for meeting with me on February 21st to discuss spills that have been reported to the OCD and remain in an "open" status.

As we discussed, Fasken has collected four samples from the edge of the installed liner. All samples contained extremely low concentrations. A copy of the laboratory report and an aerial photo demonstrating the locations of sample collection is included.

Fasken Oil and Ranch, Ltd. respectfully requests to **CLOSE** this spill.

Thank you very much,

Aaron Pachlhofer
Environmental Coordinator
Fasken Oil and Ranch, Ltd.

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company Fasken Oil and Ranch, Ltd	Contact Aaron Pachlhofer
Address 6101 Holiday Hill Rd, Midland, TX 79707	Telephone No.432-687-1777
Facility Name Laguna "16" State 2H	Facility Type Tank Battery

Surface Owner: STATE	Mineral Owner: STATE	API No. 30-025-40680

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
P	**16**	**20S**	**32E**	**475'**	**South**	**610'**	**East**	**Lea**

Latitude 32.567372° **Longitude** -103.767081°

NATURE OF RELEASE

Type of Release Oil and Water	Volume of Release 120	Volume Recovered 119
Source of Release Vessel	Date and Hour of Occurrence	Date and Hour of Discovery
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Geoff Leking (voicemail) 3-11-13	
By Whom? Jimmy Carlile	Date and Hour 4:20 CST	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. ---	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

Dump valve on vessel hung open. Removed and cleaned

Describe Area Affected and Cleanup Action Taken.*

50' x 50' inside flare dike. All fluids removed. Work plan dated 4/1/13 submitted and approved by Geoff Leking. Excavation performed 4/11/13, liner installed 5/1/13. Closure report prepared by consultant. No further action needed.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature:

Printed Name: Aaron Pachlhofer

Title: Environmental Coordinator

E-mail Address: aaronp@forl.com

Date: 6/18/18 Phone: 432-687-1777

OIL CONSERVATION DIVISION

Approved by Environmental Specialist: Ashley Maxwell

Approval Date: 4/11/2023 Expiration Date:

Conditions of Approval:

Attached ☐

* Attach Additional Sheets If Necessary

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

PBELAB

Analytical Report

Prepared for:

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

Project: Laguna State 16
Project Number: [none]
Location: Lea County, New Mexico

Lab Order Number: 9B27010

NELAP ACCREDITED TNI LABORATORY

NELAP/TCEQ # T104704516-18-9

Report Date: 03/07/19

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

Project: Laguna State 16
Project Number: [none]
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S-1	9B27010-01	Soil	02/25/19 08:52	02-27-2019 11:15
S-2	9B27010-02	Soil	02/25/19 08:56	02-27-2019 11:15
S-3	9B27010-03	Soil	02/25/19 08:38	02-27-2019 11:15
S-4	9B27010-04	Soil	02/25/19 08:45	02-27-2019 11:15

Fasken Oil & Ranch, Ltd.	Project: Laguna State 16	Fax: 43-687-1570
6101 Holiday Hill Road	Project Number: [none]	
Midland TX, 79707	Project Manager: Aaron Pachlhofer	

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9B27010-01 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00115	mg/kg dry	1	P9B2808	02/28/19	03/01/19	EPA 8021B	
Toluene	ND	0.00115	mg/kg dry	1	P9B2808	02/28/19	03/01/19	EPA 8021B	
Ethylbenzene	ND	0.00115	mg/kg dry	1	P9B2808	02/28/19	03/01/19	EPA 8021B	
Xylene (p/m)	ND	0.00230	mg/kg dry	1	P9B2808	02/28/19	03/01/19	EPA 8021B	
Xylene (o)	ND	0.00115	mg/kg dry	1	P9B2808	02/28/19	03/01/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*100 %*	*75-125*		*P9B2808*	*02/28/19*	*03/01/19*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*77.9 %*	*75-125*		*P9B2808*	*02/28/19*	*03/01/19*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	ND	1.15	mg/kg dry	1	P9C0402	03/04/19	03/05/19	EPA 300.0	
% Moisture	**13.0**	0.1	%	1	P9B2803	02/28/19	02/28/19	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	28.7	mg/kg dry	1	P9C0107	03/01/19	03/02/19	TPH 8015M	
>C12-C28	ND	28.7	mg/kg dry	1	P9C0107	03/01/19	03/02/19	TPH 8015M	
>C28-C35	ND	28.7	mg/kg dry	1	P9C0107	03/01/19	03/02/19	TPH 8015M	
Surrogate: 1-Chlorooctane		*86.2 %*	*70-130*		*P9C0107*	*03/01/19*	*03/02/19*	*TPH 8015M*	
Surrogate: o-Terphenyl		*101 %*	*70-130*		*P9C0107*	*03/01/19*	*03/02/19*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	28.7	mg/kg dry	1	[CALC]	03/01/19	03/02/19	calc	

Fasken Oil & Ranch, Ltd.	Project: Laguna State 16	Fax: 43-687-1570
6101 Holiday Hill Road	Project Number: [none]	
Midland TX, 79707	Project Manager: Aaron Pachlhofer	

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9B27010-02 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00114	mg/kg dry	1	P9B2808	02/28/19	03/01/19	EPA 8021B	
Toluene	ND	0.00114	mg/kg dry	1	P9B2808	02/28/19	03/01/19	EPA 8021B	
Ethylbenzene	ND	0.00114	mg/kg dry	1	P9B2808	02/28/19	03/01/19	EPA 8021B	
Xylene (p/m)	ND	0.00227	mg/kg dry	1	P9B2808	02/28/19	03/01/19	EPA 8021B	
Xylene (o)	ND	0.00114	mg/kg dry	1	P9B2808	02/28/19	03/01/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*84.0 %*	*75-125*		*P9B2808*	*02/28/19*	*03/01/19*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*111 %*	*75-125*		*P9B2808*	*02/28/19*	*03/01/19*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**2.78**	1.14	mg/kg dry	1	P9C0402	03/04/19	03/05/19	EPA 300.0	
% Moisture	**12.0**	0.1	%	1	P9B2803	02/28/19	02/28/19	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	28.4	mg/kg dry	1	P9C0107	03/01/19	03/02/19	TPH 8015M	
>C12-C28	**28.7**	28.4	mg/kg dry	1	P9C0107	03/01/19	03/02/19	TPH 8015M	
>C28-C35	ND	28.4	mg/kg dry	1	P9C0107	03/01/19	03/02/19	TPH 8015M	
Surrogate: 1-Chlorooctane		*83.5 %*	*70-130*		*P9C0107*	*03/01/19*	*03/02/19*	*TPH 8015M*	
Surrogate: o-Terphenyl		*99.6 %*	*70-130*		*P9C0107*	*03/01/19*	*03/02/19*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**28.7**	28.4	mg/kg dry	1	[CALC]	03/01/19	03/02/19	calc	

Fasken Oil & Ranch, Ltd.	Project: Laguna State 16	Fax: 43-687-1570
6101 Holiday Hill Road	Project Number: [none]	
Midland TX, 79707	Project Manager: Aaron Pachlhofer	

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9B27010-03 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00109	mg/kg dry	1	P9B2808	02/28/19	03/01/19	EPA 8021B	
Toluene	ND	0.00109	mg/kg dry	1	P9B2808	02/28/19	03/01/19	EPA 8021B	
Ethylbenzene	ND	0.00109	mg/kg dry	1	P9B2808	02/28/19	03/01/19	EPA 8021B	
Xylene (p/m)	ND	0.00217	mg/kg dry	1	P9B2808	02/28/19	03/01/19	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	P9B2808	02/28/19	03/01/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*103 %*	*75-125*		*P9B2808*	*02/28/19*	*03/01/19*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*80.4 %*	*75-125*		*P9B2808*	*02/28/19*	*03/01/19*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**37.2**	1.09	mg/kg dry	1	P9C0402	03/04/19	03/05/19	EPA 300.0	
% Moisture	**8.0**	0.1	%	1	P9B2803	02/28/19	02/28/19	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.2	mg/kg dry	1	P9C0107	03/01/19	03/02/19	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P9C0107	03/01/19	03/02/19	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P9C0107	03/01/19	03/02/19	TPH 8015M	
Surrogate: 1-Chlorooctane		*83.3 %*	*70-130*		*P9C0107*	*03/01/19*	*03/02/19*	*TPH 8015M*	
Surrogate: o-Terphenyl		*97.7 %*	*70-130*		*P9C0107*	*03/01/19*	*03/02/19*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	03/01/19	03/02/19	calc	

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6101 Holiday Hill Road	Project Number: [none]	
Midland TX, 79707	Project Manager: Aaron Pachlhofer	

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9B27010-04 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00115	mg/kg dry	1	P9B2808	02/28/19	03/01/19	EPA 8021B	
Toluene	ND	0.00115	mg/kg dry	1	P9B2808	02/28/19	03/01/19	EPA 8021B	
Ethylbenzene	ND	0.00115	mg/kg dry	1	P9B2808	02/28/19	03/01/19	EPA 8021B	
Xylene (p/m)	ND	0.00230	mg/kg dry	1	P9B2808	02/28/19	03/01/19	EPA 8021B	
Xylene (o)	ND	0.00115	mg/kg dry	1	P9B2808	02/28/19	03/01/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*79.8 %*	*75-125*		*P9B2808*	*02/28/19*	*03/01/19*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*110 %*	*75-125*		*P9B2808*	*02/28/19*	*03/01/19*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**45.8**	1.15	mg/kg dry	1	P9C0402	03/04/19	03/05/19	EPA 300.0	
% Moisture	**13.0**	0.1	%	1	P9B2803	02/28/19	02/28/19	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	28.7	mg/kg dry	1	P9C0107	03/01/19	03/02/19	TPH 8015M	
>C12-C28	ND	28.7	mg/kg dry	1	P9C0107	03/01/19	03/02/19	TPH 8015M	
>C28-C35	ND	28.7	mg/kg dry	1	P9C0107	03/01/19	03/02/19	TPH 8015M	
Surrogate: 1-Chlorooctane		*85.8 %*	*70-130*		*P9C0107*	*03/01/19*	*03/02/19*	*TPH 8015M*	
Surrogate: o-Terphenyl		*101 %*	*70-130*		*P9C0107*	*03/01/19*	*03/02/19*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	28.7	mg/kg dry	1	[CALC]	03/01/19	03/02/19	calc	

Fasken Oil & Ranch, Ltd.	Project: Laguna State 16	Fax: 43-687-1570
6101 Holiday Hill Road	Project Number: [none]	
Midland TX, 79707	Project Manager: Aaron Pachlhofer	

Organics by GC - 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 P9B2808 - General Preparation (GC)										
Blank (P9B2808-BLK1)				Prepared: 02/28/19 Analyzed: 03/01/19						
Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	*0.0457*		"	*0.0600*		*76.2*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.0536*		"	*0.0600*		*89.4*	*75-125*			
LCS (P9B2808-BS1)				Prepared: 02/28/19 Analyzed: 03/01/19						
Benzene	0.120	0.00100	mg/kg wet	0.100		120	70-130			
Toluene	0.115	0.00100	"	0.100		115	70-130			
Ethylbenzene	0.101	0.00100	"	0.100		101	70-130			
Xylene (p/m)	0.214	0.00200	"	0.200		107	70-130			
Xylene (o)	0.116	0.00100	"	0.100		116	70-130			
Surrogate: 1,4-Difluorobenzene	*0.0642*		"	*0.0600*		*107*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.0576*		"	*0.0600*		*96.0*	*75-125*			
LCS Dup (P9B2808-BSD1)				Prepared: 02/28/19 Analyzed: 03/01/19						
Benzene	0.130	0.00100	mg/kg wet	0.100		130	70-130	8.56	20	
Toluene	0.127	0.00100	"	0.100		127	70-130	10.5	20	
Ethylbenzene	0.170	0.00100	"	0.100		170	70-130	50.9	20	
Xylene (p/m)	0.238	0.00200	"	0.200		119	70-130	10.9	20	
Xylene (o)	0.136	0.00100	"	0.100		136	70-130	15.8	20	
Surrogate: 1,4-Difluorobenzene	*0.0668*		"	*0.0600*		*111*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.0594*		"	*0.0600*		*99.0*	*75-125*			
Calibration Blank (P9B2808-CCB1)				Prepared: 02/28/19 Analyzed: 03/01/19						
Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	*0.0440*		"	*0.0600*		*73.4*	*75-125*			*S-09*
Surrogate: 4-Bromofluorobenzene	*0.0584*		"	*0.0600*		*97.4*	*75-125*			

Fasken Oil & Ranch, Ltd.	Project: Laguna State 16	Fax: 43-687-1570
6101 Holiday Hill Road	Project Number: [none]	
Midland TX, 79707	Project Manager: Aaron Pachlhofer	

Organics by GC - 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 P9B2808 - General Preparation (GC)										
Calibration Blank (P9B2808-CCB2)				Prepared: 02/28/19 Analyzed: 03/01/19						
Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	*0.0463*		*"*	*0.0600*		*77.2*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.0544*		*"*	*0.0600*		*90.6*	*75-125*			
Calibration Check (P9B2808-CCV1)				Prepared: 02/28/19 Analyzed: 03/01/19						
Benzene	0.112	0.00100	mg/kg wet	0.100		112	80-120			
Toluene	0.105	0.00100	"	0.100		105	80-120			
Ethylbenzene	0.118	0.00100	"	0.100		118	80-120			
Xylene (p/m)	0.198	0.00200	"	0.200		99.0	80-120			
Xylene (o)	0.119	0.00100	"	0.100		119	80-120			
Surrogate: 4-Bromofluorobenzene	*0.0622*		*"*	*0.0600*		*104*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.0618*		*"*	*0.0600*		*103*	*75-125*			
Calibration Check (P9B2808-CCV2)				Prepared: 02/28/19 Analyzed: 03/01/19						
Benzene	0.119	0.00100	mg/kg wet	0.100		119	80-120			
Toluene	0.116	0.00100	"	0.100		116	80-120			
Ethylbenzene	0.117	0.00100	"	0.100		117	80-120			
Xylene (p/m)	0.212	0.00200	"	0.200		106	80-120			
Xylene (o)	0.118	0.00100	"	0.100		118	80-120			
Surrogate: 4-Bromofluorobenzene	*0.0632*		*"*	*0.0600*		*105*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.0631*		*"*	*0.0600*		*105*	*75-125*			
Calibration Check (P9B2808-CCV3)				Prepared: 02/28/19 Analyzed: 03/01/19						
Benzene	0.119	0.00100	mg/kg wet	0.100		119	80-120			
Toluene	0.119	0.00100	"	0.100		119	80-120			
Ethylbenzene	0.112	0.00100	"	0.100		112	80-120			
Xylene (p/m)	0.218	0.00200	"	0.200		109	80-120			
Xylene (o)	0.120	0.00100	"	0.100		120	80-120			
Surrogate: 1,4-Difluorobenzene	*0.0652*		*"*	*0.0600*		*109*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.0684*		*"*	*0.0600*		*114*	*75-125*			

Fasken Oil & Ranch, Ltd.	Project: Laguna State 16	Fax: 43-687-1570
6101 Holiday Hill Road	Project Number: [none]	
Midland TX, 79707	Project Manager: Aaron Pachlhofer	

Organics by GC - 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 P9B2808 - General Preparation (GC)										
Matrix Spike (P9B2808-MS1)		**Source: 9B25024-02**		Prepared: 02/28/19 Analyzed: 03/01/19						
Benzene	0.0237	0.00116	mg/kg dry	0.116	ND	20.4	80-120			QM-05
Toluene	0.00922	0.00116	"	0.116	ND	7.93	80-120			QM-05
Ethylbenzene	0.00634	0.00116	"	0.116	ND	5.45	80-120			QM-05
Xylene (p/m)	0.0106	0.00233	"	0.233	ND	4.56	80-120			QM-05
Xylene (o)	0.00372	0.00116	"	0.116	ND	3.20	80-120			QM-05
Surrogate: 4-Bromofluorobenzene	*0.0729*		*"*	*0.0698*		*104*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.0737*		*"*	*0.0698*		*106*	*75-125*			
Matrix Spike Dup (P9B2808-MSD1)		**Source: 9B25024-02**		Prepared: 02/28/19 Analyzed: 03/01/19						
Benzene	0.0339	0.00116	mg/kg dry	0.116	ND	29.2	80-120	35.4	20	QM-05
Toluene	0.0155	0.00116	"	0.116	ND	13.4	80-120	51.1	20	QM-05
Ethylbenzene	0.00944	0.00116	"	0.116	ND	8.12	80-120	39.4	20	QM-05
Xylene (p/m)	0.0185	0.00233	"	0.233	ND	7.97	80-120	54.4	20	QM-05
Xylene (o)	0.00776	0.00116	"	0.116	ND	6.67	80-120	70.3	20	QM-05
Surrogate: 4-Bromofluorobenzene	*0.0688*		*"*	*0.0698*		*98.6*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.0718*		*"*	*0.0698*		*103*	*75-125*			

Fasken Oil & Ranch, Ltd.	Project: Laguna State 16	Fax: 43-687-1570
6101 Holiday Hill Road	Project Number: [none]	
Midland TX, 79707	Project Manager: Aaron Pachlhofer	

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 P9B2803 - * DEFAULT PREP *** **										
Blank (P9B2803-BLK1)				Prepared & Analyzed: 02/28/19						
% Moisture	ND	0.1	%							
Duplicate (P9B2803-DUP1)		**Source: 9B27012-01**		Prepared & Analyzed: 02/28/19						
% Moisture	13.0	0.1	%		12.0			8.00	20	
Batch P9C0402 - * DEFAULT PREP *** **										
Blank (P9C0402-BLK1)				Prepared: 03/04/19 Analyzed: 03/05/19						
Chloride	ND	1.00	mg/kg wet							
LCS (P9C0402-BS1)				Prepared & Analyzed: 03/04/19						
Chloride	409	1.00	mg/kg wet	400		102	80-120			
LCS Dup (P9C0402-BSD1)				Prepared & Analyzed: 03/04/19						
Chloride	408	1.00	mg/kg wet	400		102	80-120	0.235	20	
Duplicate (P9C0402-DUP1)		**Source: 9B26008-04**		Prepared & Analyzed: 03/04/19						
Chloride	7510	29.4	mg/kg dry		7500			0.0940	20	
Duplicate (P9C0402-DUP2)		**Source: 9B28009-01**		Prepared: 03/04/19 Analyzed: 03/05/19						
Chloride	12600	54.9	mg/kg dry		12000			5.30	20	
Matrix Spike (P9C0402-MS1)		**Source: 9B26008-04**		Prepared & Analyzed: 03/04/19						
Chloride	10200	29.4	mg/kg dry	2940	7500	92.3	80-120			

Fasken Oil & Ranch, Ltd.	Project: Laguna State 16	Fax: 43-687-1570
6101 Holiday Hill Road	Project Number: [none]	
Midland TX, 79707	Project Manager: Aaron Pachlhofer	

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
Batch P9C0107 - TX 1005										
Blank (P9C0107-BLK1)				Prepared & Analyzed: 03/01/19						
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	*125*		*"*	*100*		*125*	*70-130*			
Surrogate: o-Terphenyl	*71.4*		*"*	*50.0*		*143*	*70-130*			*S-GC*
LCS (P9C0107-BS1)				Prepared & Analyzed: 03/01/19						
C6-C12	857	25.0	mg/kg wet	1000		85.7	75-125			
>C12-C28	1200	25.0	"	1000		120	75-125			
Surrogate: 1-Chlorooctane	*120*		*"*	*100*		*120*	*70-130*			
Surrogate: o-Terphenyl	*59.9*		*"*	*50.0*		*120*	*70-130*			
LCS Dup (P9C0107-BSD1)				Prepared & Analyzed: 03/01/19						
C6-C12	888	25.0	mg/kg wet	1000		88.8	75-125	3.59	20	
>C12-C28	1230	25.0	"	1000		123	75-125	2.14	20	
Surrogate: 1-Chlorooctane	*120*		*"*	*100*		*120*	*70-130*			
Surrogate: o-Terphenyl	*67.3*		*"*	*50.0*		*135*	*70-130*			*S-GC*
Calibration Blank (P9C0107-CCB1)				Prepared & Analyzed: 03/01/19						
C6-C12	6.08		mg/kg wet							
>C12-C28	11.8		"							
Surrogate: 1-Chlorooctane	*122*		*"*	*100*		*122*	*70-130*			
Surrogate: o-Terphenyl	*69.3*		*"*	*50.0*		*139*	*70-130*			*S-GC*
Calibration Blank (P9C0107-CCB2)				Prepared: 03/01/19 Analyzed: 03/02/19						
C6-C12	9.36		mg/kg wet							
>C12-C28	13.4		"							
Surrogate: 1-Chlorooctane	*124*		*"*	*100*		*124*	*70-130*			
Surrogate: o-Terphenyl	*70.8*		*"*	*50.0*		*142*	*70-130*			*S-GC*

Fasken Oil & Ranch, Ltd.	Project: Laguna State 16	Fax: 43-687-1570
6101 Holiday Hill Road	Project Number: [none]	
Midland TX, 79707	Project Manager: Aaron Pachlhofer	

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
Batch P9C0107 - TX 1005										
Calibration Check (P9C0107-CCV1)				Prepared & Analyzed: 03/01/19						
C6-C12	502	25.0	mg/kg wet	500		100	85-115			
>C12-C28	547	25.0	"	500		109	85-115			
Surrogate: 1-Chlorooctane	*127*		*"*	*100*		*127*	*70-130*			
Surrogate: o-Terphenyl	*64.0*		*"*	*50.0*		*128*	*70-130*			
Calibration Check (P9C0107-CCV2)				Prepared: 03/01/19 Analyzed: 03/02/19						
C6-C12	495	25.0	mg/kg wet	500		99.1	85-115			
>C12-C28	566	25.0	"	500		113	85-115			
Surrogate: 1-Chlorooctane	*125*		*"*	*100*		*125*	*70-130*			
Surrogate: o-Terphenyl	*62.7*		*"*	*50.0*		*125*	*70-130*			
Calibration Check (P9C0107-CCV3)				Prepared: 03/01/19 Analyzed: 03/02/19						
C6-C12	535	25.0	mg/kg wet	500		107	85-115			
>C12-C28	568	25.0	"	500		114	85-115			
Surrogate: 1-Chlorooctane	*113*		*"*	*100*		*113*	*70-130*			
Surrogate: o-Terphenyl	*59.1*		*"*	*50.0*		*118*	*70-130*			
Matrix Spike (P9C0107-MS1)	**Source: 9B27007-01**			Prepared: 03/01/19 Analyzed: 03/02/19						
C6-C12	982	28.7	mg/kg dry	1150	24.9	83.3	75-125			
>C12-C28	1210	28.7	"	1150	139	93.2	75-125			
Surrogate: 1-Chlorooctane	*128*		*"*	*115*		*112*	*70-130*			
Surrogate: o-Terphenyl	*66.0*		*"*	*57.5*		*115*	*70-130*			
Matrix Spike Dup (P9C0107-MSD1)	**Source: 9B27007-01**			Prepared: 03/01/19 Analyzed: 03/02/19						
C6-C12	991	28.7	mg/kg dry	1150	24.9	84.0	75-125	0.888	20	
>C12-C28	1320	28.7	"	1150	139	103	75-125	9.72	20	
Surrogate: 1-Chlorooctane	*128*		*"*	*115*		*111*	*70-130*			
Surrogate: o-Terphenyl	*64.8*		*"*	*57.5*		*113*	*70-130*			

Fasken Oil & Ranch, Ltd.	Project: Laguna State 16	Fax: 43-687-1570
6101 Holiday Hill Road	Project Number: [none]	
Midland TX, 79707	Project Manager: Aaron Pachlhofer	

Notes and Definitions

S-GC	Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
S-09	Surrogate recovery limits have been exceeded.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
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: Brent Barron Date: 3/7/2019

Brent Barron, Laboratory Director/Technical Director

Fasken Oil & Ranch, Ltd.	Project: Laguna State 16	Fax: 43-687-1570
6101 Holiday Hill Road	Project Number: [none]	
Midland TX, 79707	Project Manager: Aaron Pachlhofer	

PBELAB

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP
10014 S. County Road 1213
Midland, Texas 79706

Phone: 432-686-7235

Project Manager: Aaron Pachlhofer
Company Name: Fasken Oil and Ranch, Ltd
Company Address: 6101 Holiday Hill Road
City/State/Zip: Midland, TX 79707
Telephone No: 432-687-1777 Fax No: 432-687-1570
Sampler Signature: e-mail: aaronp@forl.com

Project Name: Laguna State 16
Project #:
Project Loc: Lea County, NM
PO #:
Report Format: X Standard ☐ TRRP ☐ NPDES

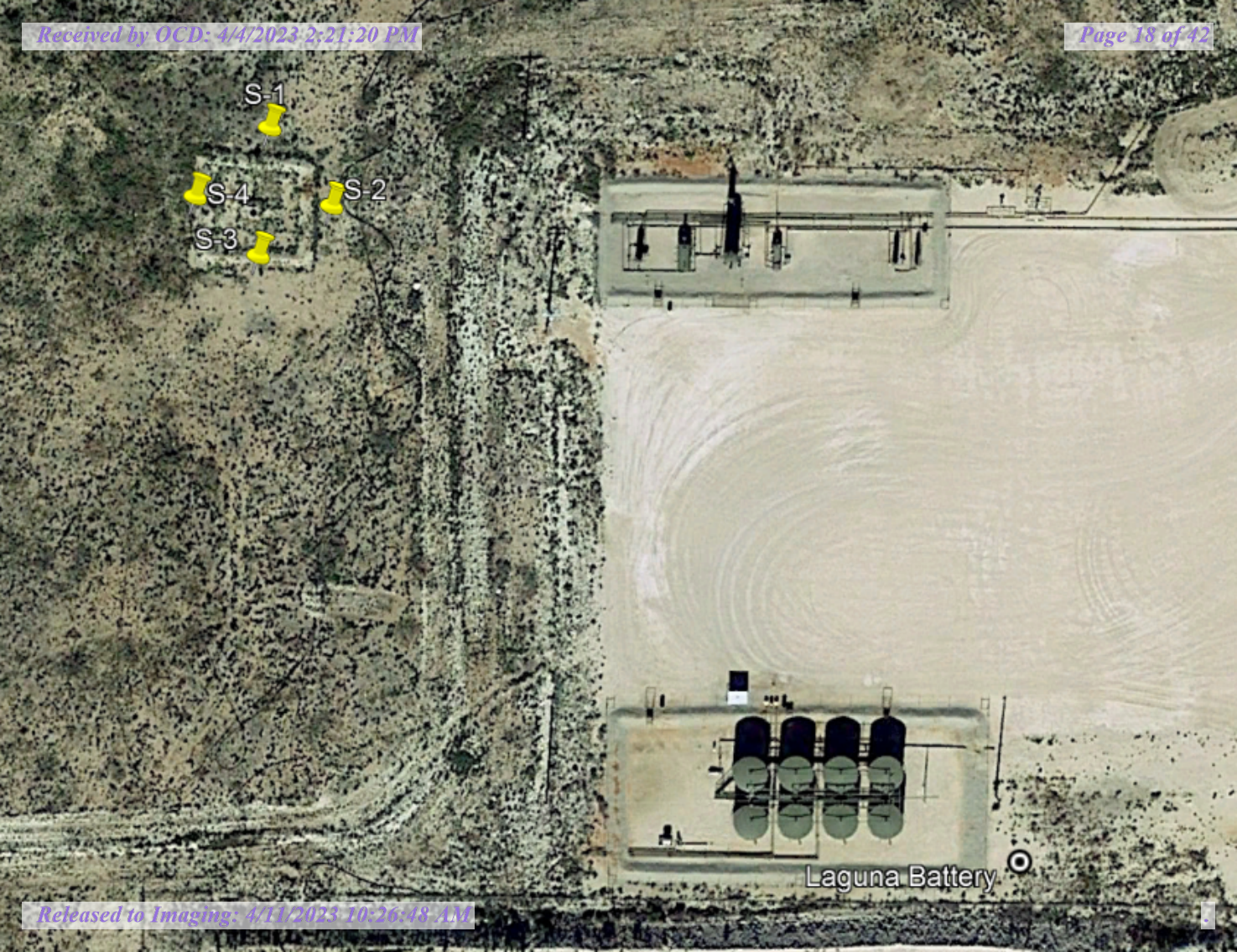
(lab use only)
ORDER #: 9B27010

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: Ice	HNO_3	HCl	H_2SO_4	NaOH	$Na_2S_2O_3$	None	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	Analyze For: TCLP: TPH: 418.1 8015M 8015B	TOTAL: TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	Glycol			RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
01	S-1			2/25/2019	8:52			X								S	X			X					X							X
02	S-2			2/25/2019	8:56			X								S	X			X					X							X
03	S-3			2/25/2019	8:38			X								S	X			X					X							X
04	S-4			2/25/2019	8:45			X								S	X			X					X							X

Special Instructions:

Relinquished by:	Date	Time	Received by:	Date	Time
Aaron Pachlhofer	2-27-19	15:15			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by: ELOT	Date	Time
				2-27-19	11:15

Laboratory Comments:
Sample Containers Intact? Y N
VOCs Free of Headspace? Y N
Labels on container(s) Y N
Custody seals on container(s) Y N
Custody seals on cooler(s) Y N
Sample Hand Delivered by Sampler/Client Rep.? Y N
by Courier? UPS DHL FedEx Lone Star
Temperature Upon Receipt
Received: 3.0 °C
Adjusted: 4.0 °C Factor 1.12


S-1
S-4
S-2
S-3
Laguna Battery

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company Fasken Oil and Ranch, Ltd.	Contact Jimmy Carlile
Address 6101 Holiday Hill Rd. Midland, TX 79707	Telephone No. 432-687-1777
Facility Name Laguna "16" State No. 2H	Facility Type Tank Battery
Surface Owner State	Mineral Owner State
API No. 30-025-40680	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
P	16	20S	32E	475'	South	610'	East	Lea

Latitude _____ Longitude _____

NATURE OF RELEASE

Type of Release Oil and water	Volume of Release 120 / Volume Recovered 119
Source of Release vessel	Date and Hour of Occurrence / Date and Hour of Discovery
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Geoff Lecking (voicemail) 3-11-13
By Whom? Jimmy Carlile	Date and Hour 4:20 CST
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. --

If a Watercourse was Impacted, Describe Fully.*

--

Describe Cause of Problem and Remedial Action Taken.*

Dump valve on vessel hung open. Removed and cleaned.

Describe Area Affected and Cleanup Action Taken.*

50' X 50' inside dike. All fluid removed.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: Jimmy D Carlile

Printed Name: Jimmy Carlile

Title: Regulatory Affairs Coordinator

E-mail Address: jimmyc@forl.com

Date: 3-11-2013 Phone: 432-687-1777

OIL CONSERVATION DIVISION

Approved by Environmental Specialist:

Approval Date: Expiration Date:

Conditions of Approval: Attached ☐

* Attach Additional Sheets If Necessary

RECEIVED
By Olivia Yu at 2:26 pm, May 04, 2018

see attached directive
5/4/2018

Fasken Oil and Ranch, Ltd.
Laguna "16" State No. 2-H
Closure Report

Lea County, New Mexico

June 24, 2013

Prepared for:

Fasken Oil and Ranch, Ltd.
6101 Holiday Hill Road
Midland, Texas 79707

By:

Safety & Environmental Solutions, Inc.
703 East Clinton Street
Hobbs, New Mexico 88240
(575) 397-0510

TABLE OF CONTENTS

I. Company Contacts

Representative	Company	Telephone	E-mail
Jimmy Carlile	Fasken Oil and Ranch	432-687-1777	jimmyc@forl.com
Bob Allen	SESI	575-397-0510	ballen@sesi-nm.com

II. Background

Safety and Environmental Solutions, Inc. (SESI) was engaged by Fasken Oil and Ranch (Fasken) to perform site assessment of a release area at the Laguna 16 State No. 2H located in Section 16 of Township 20 South, Range 32 East, Lea County, New Mexico.

The New Mexico Oil Conservation Division (OCD) C-141 was filed on March 13, 2013. The cause of the release was a dump valve on a vessel hung open. The open valve caused excess fluid to spill out of the flare stack. Approximately 120 barrels of produced fluids was released and 119 barrels were recovered. The majority of the spill was confined to the bermed area around the flare stack.

III. Surface and Ground Water

The nearest groundwater record is listed with the United States Geological Survey (USGS) is in Section 23 Range 32 East and Township 20 South, which is located 1.9 miles southeast of the site. The depth to groundwater was reported at 39.83 feet in January 30, 1996. The New Mexico Office of the State Engineer did not have records of any groundwater withdrawals in Township 20 South Range 32 East.

IV. Characterization

The target cleanup levels determined using the "Guidelines for Remediation of Leaks, Spills and Releases" (NMOCD, August 13, 1993).

Application of the OCD's ranking criteria for contaminated soils indicates 100 parts per million (ppm) Total Petroleum Hydrocarbons (TPH), as presented in the following determinations:

Depth to Ground Water:			
(Vertical distance from contaminants to seasonal high water elevation of groundwater)	Less than 50 feet	20 points	X
	50 feet to 99 feet	10 points	
	>100 feet	0 points	
Wellhead Protection Area:			
(Less than 200 feet from a private domestic water source; or less than 1000 feet from all other water sources)	Yes	20 points	
	No	0 points	X
Distance to Surface Water:			
(Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)	Less than 200 feet	20 points	
	200 feet to 1000 feet	10 points	
	>1000 feet	0 points	X
		RANKING SCORE (TOTAL POINTS)	**20**

V. Work Performed

On April 11, 2013, SESI was onsite with Ono's and L & M contract services to take fence down and begin digging out the (2) lines that were buried inside the berm to expose them for the backhoe operator. The area inside the berm was excavated to a depth of one to two feet until a hard layer of caliche was encountered. Eight (8) loads of contaminated soil were transported to Lea Land, an approved NMOCD facility, for disposal and eight loads of topsoil was returned to the site.

SESI began sampling the inside of the berm excavation at one (1) foot and two (2) feet to determine vertical extent of the chloride contamination. Field sampling data results in table below:

Date	Time	Sample ID	Cl (ppm)
4/11/13	12:15 pm	#1 – 1'	<2500
4/11/13	12:25 pm	#2 – 1'	<2500
4/11/13	12:45 pm	#3 – 1'	<2500
4/11/13	1:00 pm	#4 – 1'	<2500
4/11/13	1:15 pm	#5 – 1'	<2500
4/11/13	1:20 pm	#6 – 1'	<2500
4/11/13	1:40 pm	#1 – 2'	1256
4/11/13	1:55 pm	#2 – 2'	1352
4/11/13	2:20 pm	#3 – 2'	<2500
4/11/13	2:35 pm	#4 – 2'	<2500
4/11/13	2:45 pm	#5 – 2'	1256
4/11/13	3:05 pm	#6 – 2'	<2500

The original work plan called for all contaminated soil to be excavated and transported to Lea Land for disposal. The hard layer of caliche was not able to be penetrated by the equipment onsite. Mr. Bob Allen, SESI, obtained oral permission via telephone from Mr. Leking, NMOCD, to install a 20-mil poly liner at the 2' foot depth and backfill the site.

On May 1, 2013, a 50' X 50' 20-mil poly liner was installed in the excavation. The excavation was backfilled with topsoil from Lea Land and restored to original grade. All load manifests were delivered to Richard Joy with Fasken Oil and Ranch, Ltd.

VI. Conclusion

Remedial actions at this site have all been performed with the approval of, and in accordance with all New Mexico Oil Conservation Division (NMOCD) requirements.

As a result, we respectfully submit this closure report for your consideration and approval.

VII. Figures & Appendices

Figure 1 – Vicinity Map
Figure 2 – Site Plan
Appendix A – C-141

Figure 1
Vicinity Map

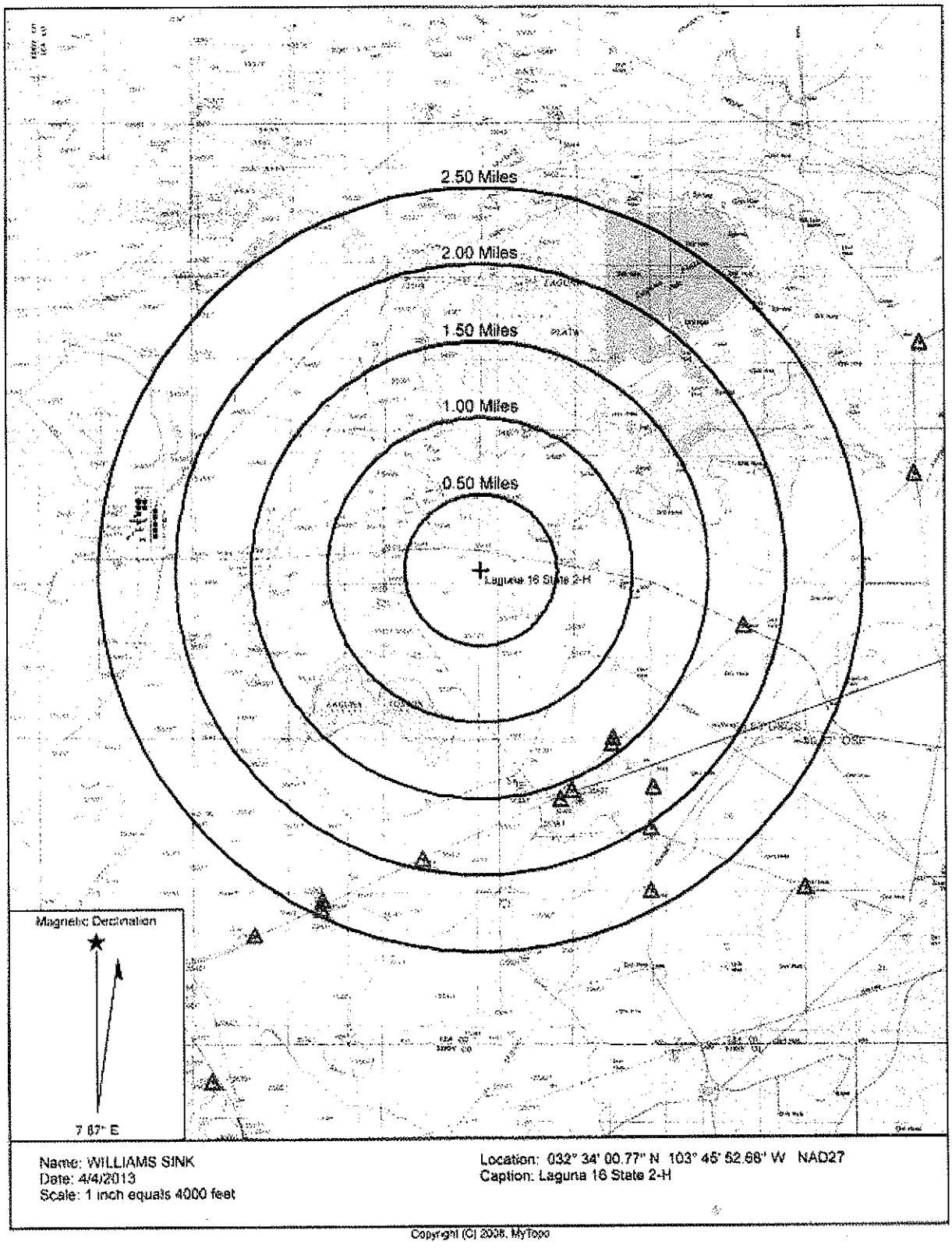
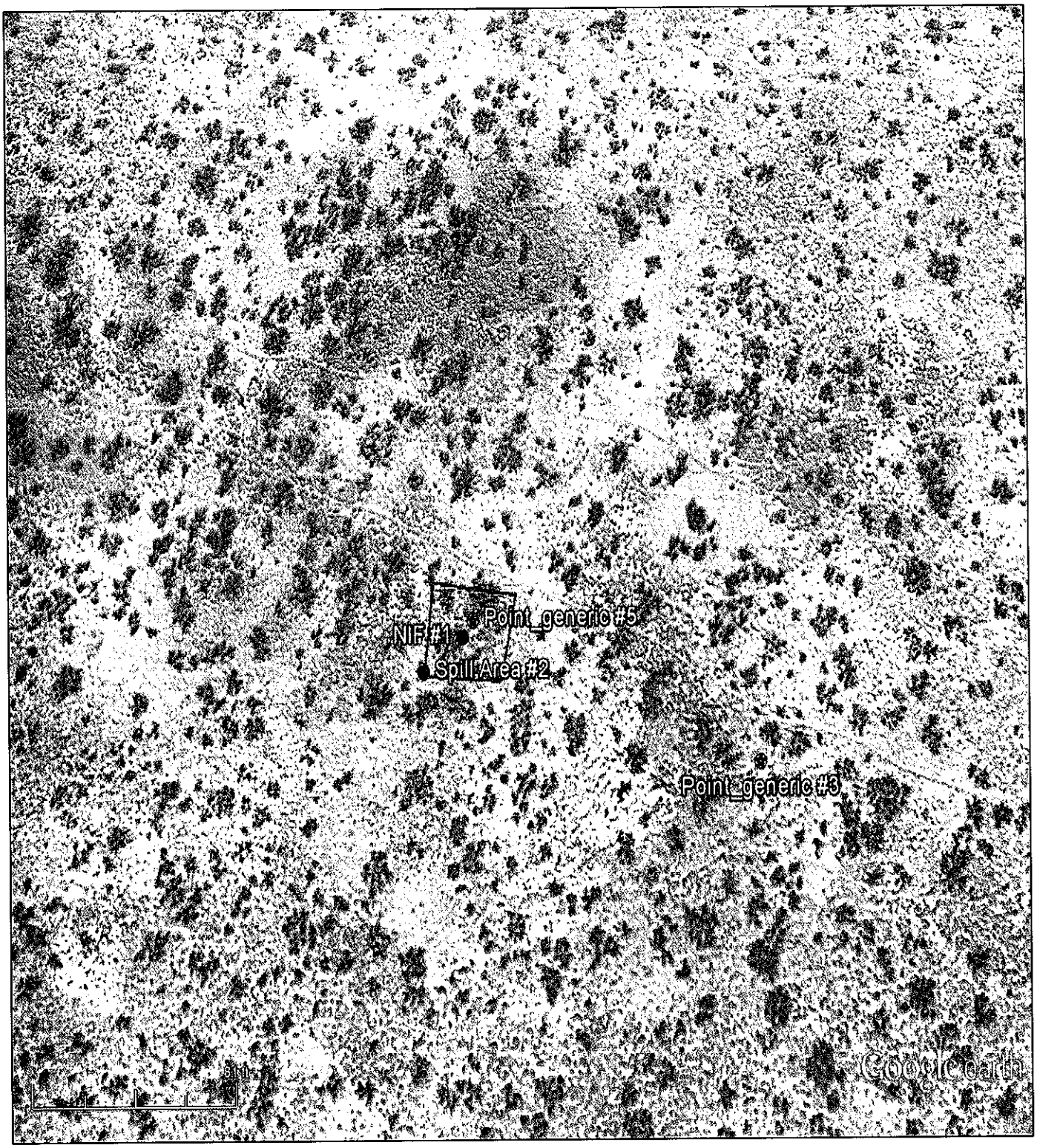


Figure 2
Site Plan


Point_generic #5
NIF #1
Spill Area #2
Point_generic #3
Google Earth

Appendix A
C-141

District I
1625 N. French Dr., Hobbs, NM 88240
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811 S. First St., Artesia, NM 88210
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Form C-141
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Address 6101 Holiday Hill Rd.,Midland, TX 79707	Telephone No. 432-687-1777
Facility Name Laguna "16" State No. 2H	Facility Type Tank Battery

Surface Owner State	Mineral Owner State	API No. 30-025-40680

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Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
P	16	20S	32E	475'	South	610'	East	Lea

Latitude _____ Longitude _____

NATURE OF RELEASE

Type of Release Oil and water	Volume of Release 120 / Volume Recovered 119
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Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Geoff Lecking (voicemail) 3-11-13
By Whom? Jimmy Carlile	Date and Hour 4:20 CST
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. --

If a Watercourse was Impacted, Describe Fully.*

—

Describe Cause of Problem and Remedial Action Taken.*

Dump valve on vessel hung open. Removed and cleaned.

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Signature: Jimmy D Carlile	OIL CONSERVATION DIVISION
Printed Name: Jimmy Carlile	Approved by Environmental Specialist:
Title: Regulatory Affairs Coordinator	Approval Date: / Expiration Date:
E-mail Address: jimmyc@forl.com	Conditions of Approval: / Attached ☐
Date: 3-11-2013 Phone: 432-687-1777	

* Attach Additional Sheets If Necessary

Fasken Oil and Ranch, Ltd.
Laguna "16" State No. 2-H
Work plan

Lea County, New Mexico

April 1, 2013

1RP-5042

approved
Geoffrey Leking
Environmental Specialist
NMOCD - DIST 1
4/9/13

Prepared for:

Fasken Oil and Ranch, Ltd.
6101 Holiday Hill Road
Midland, Texas 79707

By:

Safety & Environmental Solutions, Inc.
703 East Clinton Street
Hobbs, New Mexico 88240
(575) 397-0510

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(Less than 200 feet from a private domestic water source; or less than 1000 feet from all other water sources)	Yes	20 points	
	No	0 points	X
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(Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)	Less than 200 feet	20 points	
	200 feet to 1000 feet	10 points	
	>1000 feet	0 points	X
	RANKING SCORE (TOTAL POINTS)		**20**

V. Work Performed

On March 25, 2013, SESI was onsite at the Laguna 16 State No. 2H and observed fluid level marks inside the bermed area around the flare stack. Minor spray was observed on the berm and just outside the berm to the west. One call will be made for this site for all lines within 100' of the flare stack.

No sampling was performed at the site.

VI. Action Plan

All impacted soil will be excavated from the area of the flare stack. The vertical and horizontal extent of contamination will be determined during excavation. The excavated soil will be transported to an approved NMOCD facility. Confirmation samples will be retrieved and properly preserved and transported under chain of custody to Cardinal Labs of Hobbs, New Mexico. The samples will be analyzed for Benzene, Toluene, Ethyl Benzene, Total Xylenes (BTEX EPA Method 8021) and Total Petroleum Hydrocarbons (TPH EPA Method 418.1).

The excavated areas will then be backfilled with clean soils and the berm will be reconstructed..

VII. Figures & Appendices

Figure 1 – Vicinity Map
Figure 2 – Site Plan
Appendix A – C-141

Figure 1
Vicinity Map

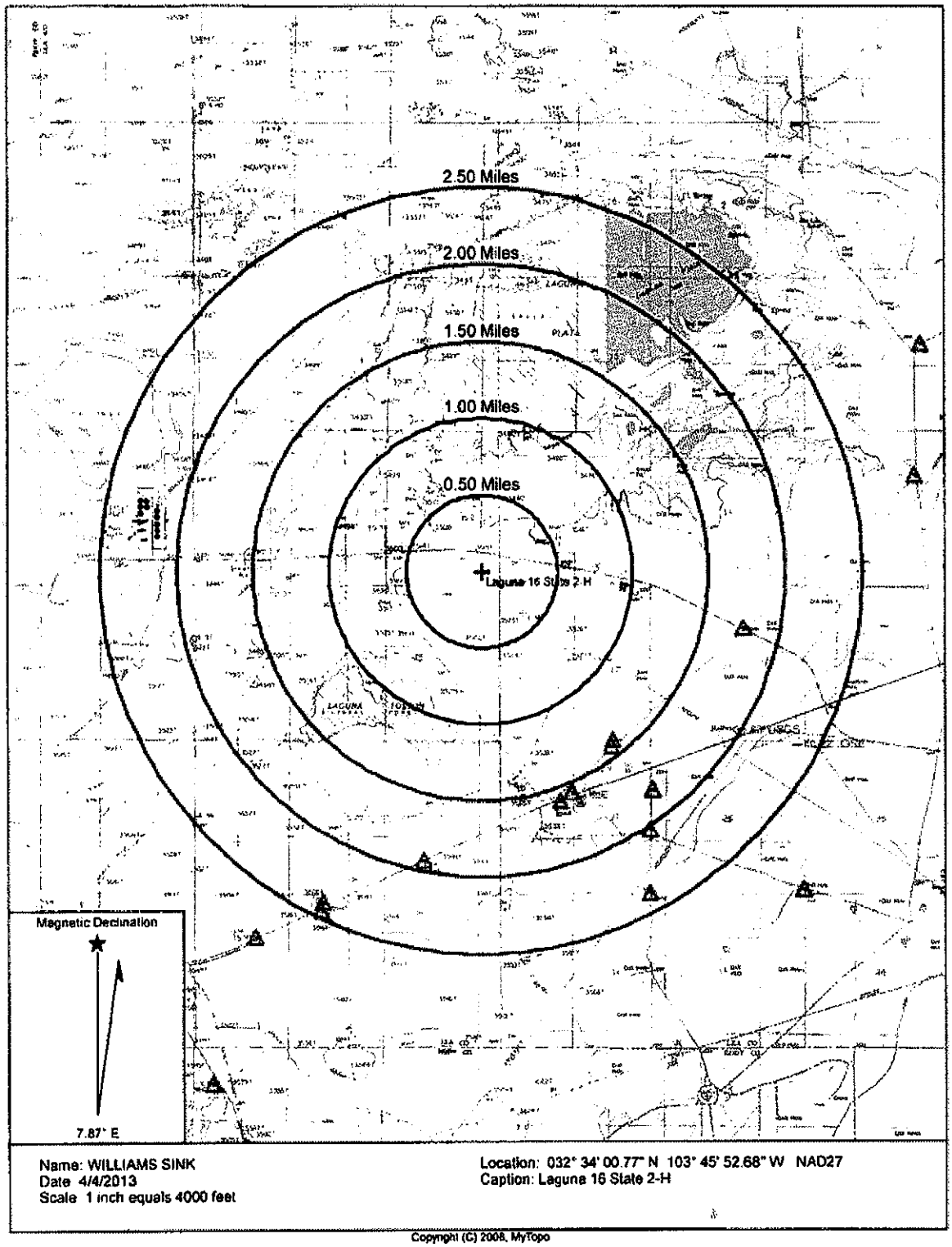
2.50 Miles
2.00 Miles
1.50 Miles
1.00 Miles
0.50 Miles
Laguna 16 State 2-H
Magnetic Declination
7.87° E
Name: WILLIAMS SINK
Date 4/4/2013
Scale 1 inch equals 4000 feet
Location: 032° 34' 00.77" N 103° 45' 52.68" W NAD27
Caption: Laguna 16 State 2-H
Copyright (C) 2008, MyTopo

Figure 2
Site Plan

Appendix A
C-141

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company Fasken Oil and Ranch, Ltd.	Contact Jimmy Carlile
Address 6101 Holiday Hill Rd. Midland, TX 79707	Telephone No. 432-687-1777
Facility Name Laguna "16" State No. 2H	Facility Type Tank Battery

Surface Owner State	Mineral Owner State	API No. 30-025-40680

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
P	16	20S	32E	475'	South	610'	East	Lea

Latitude_____ Longitude_____

NATURE OF RELEASE

Type of Release Oil and water	Volume of Release 120 / Volume Recovered 119
Source of Release vessel	Date and Hour of Occurrence / Date and Hour of Discovery
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Geoff Lecking (voicemail) 3-11-13
By Whom? Jimmy Carlile	Date and Hour 4:20 CST
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. --

If a Watercourse was Impacted, Describe Fully.*

--

RECEIVED
By Olivia Yu at 2:26 pm, May 04, 2018

Describe Cause of Problem and Remedial Action Taken.*

Dump valve on vessel hung open. Removed and cleaned.

Describe Area Affected and Cleanup Action Taken.*

50' X 50' inside dike. All fluid removed.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: Jimmy Carlile	OIL CONSERVATION DIVISION
Printed Name: Jimmy Carlile	Approved by Environmental Specialist:
Title: Regulatory Affairs Coordinator	Approval Date: 5/4/2018 / Expiration Date:
E-mail Address: jimmyc@forl.com	Conditions of Approval: see attached directive / Attached ☐
Date: 3-11-2013 Phone: 432-687-1777	

* Attach Additional Sheets If Necessary

1RP-5042 nOY1812452058

pOY1812452252

Operator/Responsible Party,

The OCD has received the form C-141 you provided on _3/2013_ regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number _1RP-5042__ has been assigned. **Please refer to this case number in all future correspondence.**

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

> *The responsible person shall complete division-approved corrective action for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC.* [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. **As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District _1_ office in __Hobbs____ on or before _6/4/2018_. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.**

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

- Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C_6 thru C_{36}), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.

- Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C_6 thru C_{36}), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.

- Nominal detection limits for field and laboratory analyses must be provided.

- Composite sampling is not generally allowed.

- Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

•Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.

• If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.

• Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

Jim Griswold
OCD Environmental Bureau Chief
1220 South St. Francis Drive
Santa Fe, New Mexico 87505
505-476-3465
jim.griswold@state.nm.us

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 204163

CONDITIONS

Operator: FASKEN OIL & RANCH LTD 6101 Holiday Hill Rd Midland, TX 79707	OGRID: 151416
	Action Number: 204163
	Action Type: [IM-SD] Incident File Support Doc (ENV) (IM-BNF)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	None	4/11/2023