

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

Form C-141
Revised August 8, 2011

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

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	Dugan Production Corp	Contact: Rodger Mullins
Address	PO Box 420, Farmington NM 87499-0420	Telephone No. (505)320-5443
Facility Name:	Angels Gate 90	Facility Type: Gas well

Surface Owner: Federal	Mineral Owner: Federal	API No. 3004529394
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LOCATION OF RELEASE

Unit Letter G	Section 21	Township 24N	Range 8W	Feet from the 1340	North/South Line North	Feet from the 1400	East/West Line East	County San Juan
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Latitude: 36.30363 Longitude: -107.68233

NATURE OF RELEASE

Type of Release: Engine Oil	Volume of Release: Unk	Volume Recovered: Over 12yds contaminated soil.
Source of Release: Engine leakage	Date and Hour of Occurrence Historical	Date and Hour of Discovery 12-14-17 1300
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Discovered by BLM Casey Arnett.	
By Whom? BLM Casey Arnett	Date and Hour: Unk	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

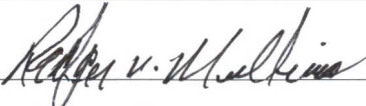

If a Watercourse was Impacted, Describe Fully.

Describe Cause of Problem and Remedial Action Taken.* Engine leakage. Oil leaked through undetected crack in concrete pad under pump jack. Leaks repaired.

Describe Area Affected and Cleanup Action Taken.*

Area under pump jack. Pump jack was removed. Contaminated soil under pump jack was removed and hauled to approved land farm and replaced with clean soil. (On 06-06-18 a five point composite of soil samples was obtained from the excavation area by drilling down around the pump jack at an angle with a sample auger so as to retrieve samples from directly under the pump jack. Sample holes were approximately three feet deep which is slightly deeper than the bottom of the excavated area. Soil samples were sent to Cardinal laboratories in Hobbs, NM for analyses. (See attached lab results).

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: 	OIL CONSERVATION DIVISION	
Printed Name: Rodger Mullins	Approved by Environmental Specialist: 	
Title: Environmental	Approval Date: 8/10/18	Expiration Date:
E-mail Address: rodger.mullins@duganproduction.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 04-23-18 5443	Phone: (505)320-5443	

* Attach Additional Sheets If Necessary

#NCS 181235 1756

NMOCD

JUN 28 2018

DISTRICT III

12

June 26, 2018

MIKE SANDOVAL
DUGAN PRODUCTION
P. O. BOX 420
FARMINGTON, NM 87499

RE: ANGELS GATE #90

Enclosed are the results of analyses for samples received by the laboratory on 06/08/18 9:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-10. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Total Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene
Lab Director/Quality Manager

Analytical Results For:DUGAN PRODUCTION
P. O. BOX 420
FARMINGTON NM, 87499Project: ANGELS GATE #90
Project Number: AROUND PUMPING UNIT
Project Manager: MIKE SANDOVAL
Fax To: (505) 327-4043Reported:
26-Jun-18 09:48

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
ANGELS GATE #90	H801569-01	Soil	06-Jun-18 14:00	08-Jun-18 09:30

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 DUGAN PRODUCTION
 P. O. BOX 420
 FARMINGTON NM, 87499

 Project: ANGELS GATE #90
 Project Number: AROUND PUMPING UNIT
 Project Manager: MIKE SANDOVAL
 Fax To: (505) 327-4043

 Reported:
 26-Jun-18 09:48

ANGELS GATE #90
H801569-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	8060901	MS	09-Jun-18	8021B	
Toluene*	<0.050	0.050	mg/kg	50	8060901	MS	09-Jun-18	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	8060901	MS	09-Jun-18	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	8060901	MS	09-Jun-18	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	8060901	MS	09-Jun-18	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.8-142 8060901 MS 09-Jun-18 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	8060812	MS	08-Jun-18	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	8060812	MS	08-Jun-18	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	8060812	MS	08-Jun-18	8015B	

Surrogate: 1-Chlorooctane 85.6 % 41-142 8060812 MS 08-Jun-18 8015B

Surrogate: 1-Chlorooctadecane 94.3 % 37.6-147 8060812 MS 08-Jun-18 8015B

Green Analytical Laboratories
General Chemistry

% Dry Solids	95.6	%	1	B806196	LLG	25-Jun-18	EPA160.3/16 84	H2
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Total Metals by ICP

Arsenic	<10.0	10.0	mg/kg dry	100	B806182	JDA	22-Jun-18	6010B	
Barium	150	5.00	mg/kg dry	100	B806182	JDA	22-Jun-18	6010B	
Cadmium	<5.00	5.00	mg/kg dry	100	B806182	JDA	22-Jun-18	6010B	
Chromium	7.12	5.00	mg/kg dry	100	B806182	JDA	22-Jun-18	6010B	
Lead	<10.0	10.0	mg/kg dry	100	B806182	JDA	22-Jun-18	6010B	
Selenium	<20.0	20.0	mg/kg dry	100	B806182	JDA	22-Jun-18	6010B	
Silver	<1.00	1.00	mg/kg dry	100	B806182	JDA	22-Jun-18	6010B	

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:DUGAN PRODUCTION
P. O. BOX 420
FARMINGTON NM, 87499Project: ANGELS GATE #90
Project Number: AROUND PUMPING UNIT
Project Manager: MIKE SANDOVAL
Fax To: (505) 327-4043Reported:
26-Jun-18 09:48**ANGELS GATE #90
H801569-01 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Green Analytical Laboratories**Total Mercury by CVAA**

Mercury	<0.105	0.105	mg/kg dry	500	B806191	LLG	22-Jun-18	EPA7471		
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Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 DUGAN PRODUCTION
 P. O. BOX 420
 FARMINGTON NM, 87499

 Project: ANGELS GATE #90
 Project Number: AROUND PUMPING UNIT
 Project Manager: MIKE SANDOVAL
 Fax To: (505) 327-4043

 Reported:
 26-Jun-18 09:48

Volatile Organic Compounds by EPA Method 8021 - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 8060901 - Volatiles
Blank (8060901-BLK1)

Prepared & Analyzed: 09-Jun-18

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (P1D)	0.112		mg/kg	0.100		112	69.8-142			

LCS (8060901-BS1)

Prepared & Analyzed: 09-Jun-18

Benzene	1.81	0.050	mg/kg	2.00		90.3	74.5-124			
Toluene	1.81	0.050	mg/kg	2.00		90.5	78.8-122			
Ethylbenzene	1.82	0.050	mg/kg	2.00		91.0	78.6-122			
Total Xylenes	5.73	0.150	mg/kg	6.00		95.4	79.7-123			
Surrogate: 4-Bromofluorobenzene (P1D)	0.112		mg/kg	0.100		112	69.8-142			

LCS Dup (8060901-BSD1)

Prepared & Analyzed: 09-Jun-18

Benzene	1.80	0.050	mg/kg	2.00		90.2	74.5-124	0.208	15.2	
Toluene	1.83	0.050	mg/kg	2.00		91.3	78.8-122	0.798	15.1	
Ethylbenzene	1.82	0.050	mg/kg	2.00		91.2	78.6-122	0.242	15.4	
Total Xylenes	5.71	0.150	mg/kg	6.00		95.2	79.7-123	0.244	15.2	
Surrogate: 4-Bromofluorobenzene (P1D)	0.111		mg/kg	0.100		111	69.8-142			

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 DUGAN PRODUCTION
 P. O. BOX 420
 FARMINGTON NM, 87499

 Project: ANGELS GATE #90
 Project Number: AROUND PUMPING UNIT
 Project Manager: MIKE SANDOVAL
 Fax To: (505) 327-4043

 Reported:
 26-Jun-18 09:48

Petroleum Hydrocarbons by GC FID - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 8060812 - General Prep - Organics
Blank (8060812-BLK1)

Prepared & Analyzed: 08-Jun-18

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Total TPH C6-C28	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	41.8		mg/kg	50.0		83.7	41-142			
Surrogate: 1-Chlorooctadecane	48.0		mg/kg	50.0		96.0	37.6-147			

LCS (8060812-BS1)

Prepared & Analyzed: 08-Jun-18

GRO C6-C10	172	10.0	mg/kg	200		85.8	76.5-133			
DRO >C10-C28	172	10.0	mg/kg	200		85.9	72.9-138			
Total TPH C6-C28	343	10.0	mg/kg	400		85.8	78-132			
Surrogate: 1-Chlorooctane	46.5		mg/kg	50.0		92.9	41-142			
Surrogate: 1-Chlorooctadecane	57.4		mg/kg	50.0		115	37.6-147			

LCS Dup (8060812-BSD1)

Prepared & Analyzed: 08-Jun-18

GRO C6-C10	207	10.0	mg/kg	200		103	76.5-133	18.5	20.6	
DRO >C10-C28	211	10.0	mg/kg	200		105	72.9-138	20.5	20.6	
Total TPH C6-C28	417	10.0	mg/kg	400		104	78-132	19.5	18	QR-02
Surrogate: 1-Chlorooctane	54.5		mg/kg	50.0		109	41-142			
Surrogate: 1-Chlorooctadecane	65.1		mg/kg	50.0		130	37.6-147			

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:DUGAN PRODUCTION
P. O. BOX 420
FARMINGTON NM, 87499Project: ANGELS GATE #90
Project Number: AROUND PUMPING UNIT
Project Manager: MIKE SANDOVAL
Fax To: (505) 327-4043Reported:
26-Jun-18 09:48**General Chemistry - Quality Control****Green Analytical Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B806196 - General Prep - Wet Chem**Duplicate (B806196-DUP1)****Source: H801569-01**

Prepared: 22-Jun-18 Analyzed: 25-Jun-18

% Dry Solids	95.8	%		95.6		0.177	20
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Celest D. Keene, Lab Director/Quality Manager

Analytical Results For:

DUGAN PRODUCTION
P. O. BOX 420
FARMINGTON NM, 87499

Project: ANGELS GATE #90
Project Number: AROUND PUMPING UNIT
Project Manager: MIKE SANDOVAL
Fax To: (505) 327-4043

Reported:
26-Jun-18 09:48

Total Metals by ICP - Quality Control

Green Analytical Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B806182 - EPA 3050

Blank (B806182-BLK1)

Prepared: 21-Jun-18 Analyzed: 22-Jun-18

Lead	ND	10.0	mg/kg dry
Arsenic	ND	10.0	mg/kg dry
Cadmium	ND	5.00	mg/kg dry
Chromium	ND	5.00	mg/kg dry
Selenium	ND	20.0	mg/kg dry
Barium	ND	5.00	mg/kg dry
Silver	ND	1.00	mg/kg dry

LCS (B806182-BS1)

Prepared: 21-Jun-18 Analyzed: 22-Jun-18

Arsenic	405	10.0	mg/kg dry	400	101	80-120
Silver	9.39	1.00	mg/kg dry	10.0	93.9	80-120
Cadmium	182	5.00	mg/kg dry	200	91.0	80-120
Barium	194	5.00	mg/kg dry	200	96.8	80-120
Selenium	690	20.0	mg/kg dry	800	86.2	80-120
Chromium	194	5.00	mg/kg dry	200	97.0	80-120
Lead	187	10.0	mg/kg dry	200	93.3	80-120

LCS Dup (B806182-BSD1)

Prepared: 21-Jun-18 Analyzed: 22-Jun-18

Arsenic	398	10.0	mg/kg dry	400	99.5	80-120	1.62	20
Chromium	196	5.00	mg/kg dry	200	97.9	80-120	0.855	20
Lead	187	10.0	mg/kg dry	200	93.3	80-120	0.00627	20
Selenium	686	20.0	mg/kg dry	800	85.7	80-120	0.558	20
Barium	195	5.00	mg/kg dry	200	97.6	80-120	0.818	20
Cadmium	184	5.00	mg/kg dry	200	92.1	80-120	1.27	20
Silver	9.40	1.00	mg/kg dry	10.0	94.0	80-120	0.144	20

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 DUGAN PRODUCTION
 P. O. BOX 420
 FARMINGTON NM, 87499

 Project: ANGELS GATE #90
 Project Number: AROUND PUMPING UNIT
 Project Manager: MIKE SANDOVAL
 Fax To: (505) 327-4043

 Reported:
 26-Jun-18 09:48

Total Mercury by CVAA - Quality Control
Green Analytical Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B806191 - EPA 7471										
Blank (B806191-BLK1)										
					Prepared & Analyzed: 22-Jun-18					
Mercury	ND	0.0002	mg/kg wet							
LCS (B806191-BS1)										
					Prepared & Analyzed: 22-Jun-18					
Mercury	0.0018	0.0002	mg/kg wet	0.00200		87.9	85-115			
LCS Dup (B806191-BSD1)										
					Prepared & Analyzed: 22-Jun-18					
Mercury	0.0021	0.0002	mg/kg wet	0.00200		105	85-115	18.0	20	

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Celest D. Keene, Lab Director/Quality Manager

Notes and Definitions

QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
H2	Sample analysis performed past hold time specified by the method.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

service@greenanalytical.com or dzufelt@greenanalytical.com
75 Suttle St Durango, CO 81303

[illegible]

PLEASE NOTE: GAL's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by GAL within 30 days after completion. In no event shall GAL be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by GAL, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:	Date: 09/01/18 Time: 1640	Received By:	Christina Clark	ADDITIONAL REMARKS: Report to State? (Circle) Yes No
Relinquished By:	Date: 07/1/18 Time: 1600	Received By:	Fed Ex	
Relinquished By:	Date: 6-8-18 Time: 9:30	Received By:	Tamara Aldred	
Delivered By: (Circle One)	3.5°C	Temperature at receipt:	5.1°C	CHECKED BY:
Sampler - UPS - FedEx - Kangaroo - Other:	Corrected 3.45°C	on 19	u	T.O.

† GAL cannot always accept verbal changes. Please fax or email written change requests.

* Chain of Custody must be signed in "Relinquished By:" as an acceptance of services and all applicable charges.